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BRYN MAWR COLLEGE

CALENDAR

GRADUATE COURSES

1920

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BRYN MAWR, PENNSYLVANIA.

Published by Bryn Mawr College,

March, 1920

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BRYN MAWR COLLEGE CALENDAR

1920

- PART 1. Register of Alumnæ and Former Students.
- PART 2. Graduate Courses.
- PART 3. Undergraduate and Graduate Courses.
- PART 4. Academic Buildings and Halls of Residence,
Plans and Descriptions.

BRYN MAWR COLLEGE.

COLLEGE CALENDAR.

1920.														1921.														1922.													
JANUARY							JULY							JANUARY							JULY							JANUARY													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S							
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15	16	17	18	19	20	21	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11							
22	23	24	25	26	27	28	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18							
29							29	30	31																																
MARCH							SEPTEMBER							MARCH							SEPTEMBER							MARCH													
7	8	9	10	11	12	13	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
14	15	16	17	18	19	20	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7								
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28	29	30	31				26	27	28	29	30																														
APRIL							OCTOBER							APRIL							OCTOBER							APRIL													
4	5	6	7	8	9	10	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							
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25	26	27	28	29	30		24	25	26	27	28	29	30																												
MAY							NOVEMBER							MAY							NOVEMBER							MAY													
2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27								
9	10	11	12	13	14	15	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31											
16	17	18	19	20	21	22	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																			
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JUNE							DECEMBER							JUNE							DECEMBER							JUNE													
6	7	8	9	10	11	12	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
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20	21	22	23	24	25	26	19	20	21	22	23	24	25	26	27	28	29	30	31																						
27	28	29	30				26	27	28	29	30																														

The academic year will close with the Conferring of Degrees at eleven o'clock, on June 2, 1921.

ACADEMIC YEAR, 1920-21.

September 20th.	Matriculation examinations begin.
September 27th.	Registration of students. Halls of Residence open for students at three p. m.
September 28th.	Registration of students. Matriculation examinations end.
September 29th.	The work of the thirty-sixth academic year begins at a quarter to nine o'clock.
September 30th.	Examinations for advanced standing begin.
October 2nd.	Language examinations for all undergraduates.
October 9th.	Senior examination in French. Language examinations for Juniors.
October 16th.	Senior examination in German.
October 21st.	Examinations for advanced standing end.
November 15th.	Collegiate and matriculation condition examinations begin.
November 23rd.	Collegiate and matriculation condition examinations end.
November 24th.	Thanksgiving vacation begins at one o'clock.
November 29th.	Thanksgiving vacation ends at nine o'clock.
December 4th.	Senior examination in French.
December 11th.	Senior examination in German.
December 21st.	Christmas vacation begins at one o'clock.
January 5th.	Christmas vacation ends at nine o'clock.
January 12th.	Matriculation examinations begin.
January 18th.	Matriculation examinations end.
January 19th.	Half-yearly collegiate examinations begin.
January 29th.	Collegiate examinations end. Annual meeting of the Alumnae Association.
January 31st.	Vacation.
February 1st.	Vacation.
February 2nd.	The work of the second semester begins at a quarter to nine o'clock.
February 3rd.	Examinations for advanced standing begin.
February 24th.	Examinations for advanced standing end.
March 12th.	Senior examination in French.
March 14th.	Collegiate and matriculation condition examinations begin.
March 16th.	Mid-semester examination in matriculation Greek.
March 18th.	Announcement of European Fellowships.
March 19th.	Senior examination in German.
March 22nd.	Collegiate and matriculation condition examinations end.
March 23rd.	Easter vacation begins at one o'clock.
March 31st.	Easter vacation ends at nine o'clock.
May 7th.	Senior examinations in French and German.
May 17th.	Vacation.

May 18th.	Collegiate examinations begin.
May 25th.	Matriculation examinations begin.
May 28th.	Collegiate examinations end.
June 1st.	Matriculation examinations end.
June 2nd.	Conferring of degrees and close of thirty-sixth academic year.

ACADEMIC YEAR, 1921-22.

September 26th.	Matriculation examinations begin.
October 3rd.	Registration of students. Halls of Residence open for students at three p. m.
October 4th.	Registration of students. Matriculation examinations end.
October 5th.	The work of the thirty-seventh academic year begins at a quarter to nine o'clock.
October 6th.	Examinations for advanced standing begin.
October 8th.	Language examinations for all undergraduates.
October 15th.	Senior examination in French. Language examinations for Juniors.
October 22nd.	Senior examination in German.
October 27th.	Examinations for advanced standing end.
November 14th.	Collegiate and matriculation condition examinations begin.
November 22nd.	Collegiate and matriculation condition examinations end.
November 23rd.	Thanksgiving vacation begins at one o'clock.
November 28th.	Thanksgiving vacation ends at nine o'clock.
December 10th.	Senior examination in French.
December 17th.	Senior examination in German.
December 21st.	Christmas vacation begins at one o'clock.
January 5th.	Christmas vacation ends at nine o'clock.
January 18th.	Matriculation examinations begin.
January 24th.	Matriculation examinations end.
January 25th.	Half-yearly collegiate examinations begin.
February 4th.	Collegiate examinations end. Annual meeting of the Alumnae Association.
February 6th.	Vacation.
February 7th.	Vacation.
February 8th.	The work of the second semester begins at a quarter to nine o'clock.
February 9th.	Examinations for advanced standing begin.
March 2nd.	Examinations for advanced standing end.
March 11th.	Senior examination in French.
March 17th.	Announcement of European Fellowships.
March 18th.	Senior examination in German.
March 22nd.	Mid-semester examination in matriculation Greek.

March 25th.	Collegiate and matriculation condition examinations begin.
March 28th.	Collegiate and matriculation condition examinations end.
March 29th.	Spring vacation begins at one o'clock.
April 5th.	Spring vacation ends at nine o'clock.
April 14th.	Good Friday. Vacation.
May 13th.	Senior examinations in French and German.
May 23rd.	Vacation.
May 24th.	Collegiate examinations begin.
May 31st.	Matriculation examinations begin.
June 3rd.	Collegiate examinations end.
June 7th.	Matriculation examinations end.
June 8th.	Conferring of degrees and close of thirty-seventh academic year.

OFFICERS OF ADMINISTRATION.

ACADEMIC YEAR, 1919-20.

President,

M. CAREY THOMAS,* PH.D., LL.D., L.H.D.

Office: Taylor Hall.

Acting President of the College,

HELEN HERRON TAFT, A.M.

Office: Taylor Hall.

Acting Dean of the College,

HILDA WORTHINGTON SMITH, A. M.

Office: Taylor Hall.

Recording Dean and Assistant to the President,

ISABEL MADDISON, B.Sc., PH.D.

Office: Taylor Hall.

Secretary and Registrar of the College,

EDITH ORLADY, A.B. Office: Taylor Hall.

Assistant to the Secretary and Registrar of the College,

MARIAN CLEMENTINE KLEPS, A.B. Office: Taylor Hall.

Wardens of the Halls of Residence,

MARTHA GIBBONS THOMAS, A.B., Pembroke Hall.

ALICE MARTIN HAWKINS, A.B., Merion Hall.

EDITH ADAIR, A.B., Rockefeller Hall.

LESLIE RICHARDSON, A.B., Radnor Hall.

HANNAH THAYER CARPENTER, A.B., Denbigh Hall.

Comptroller,

SANDY LEE HURST. Office: Taylor Hall.

Business Manager,

LOUISE WATSON, A.B. Office: Taylor Hall.

Assistant Business Manager,

RUTH ELLEN LAUTZ, A.B. Office: Taylor Hall.

Junior Bursar,

HARRIET JEAN CRAWFORD, A.B. Office: Cartref.

Librarian,

LOIS ANTOINETTE REED, A.B., B.L.S. Office: The Library.

Director of Athletics and Gymnastics and Supervisor of Health Department,

CONSTANCE M. K. APPLEBEE. Office: The Gymnasium.

*Physician-in-Chief,*THOMAS F. BRANSON, M.D. Office hours, 8.30 to 9.30 and 2 to 3 daily,
Rosemont, Pa.*Assistant Resident Physician,*MARION HAGUE REA, M.D., 1905 Infirmary, Bryn Mawr; Office hours,
The Infirmary, Bryn Mawr College, 8 to 8.30 a. m., 4 to 5.30 p. m.,
daily except Saturday and Sunday.*Examining Oculist,*HELEN MURPHY, M.D. Office hours, 2 to 4 daily, 1408 Spruce Street,
Philadelphia.

* Granted leave of absence for the year 1919-20.

ACADEMIC APPOINTMENTS.

ACADEMIC YEAR, 1919-20.

M. CAREY THOMAS,* PH.D., LL.D., L.H.D., *President of the College and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78; University of Leipsic, 1879-82; Ph.D., University of Zurich, 1882. Student in the Sorbonne and Collège de France, 1883; Dean of the Faculty of Bryn Mawr College and Professor of English, 1885-94.

HELEN HERRON TAFT, A.M., *Acting President of the College.*

A.B., Bryn Mawr College, 1915; A.M., Yale University, 1916. Graduate Student, Yale University, 1915-17.

HILDA WORTHINGTON SMITH, A.M., *Acting Dean of the College.*

A.B., Bryn Mawr College, 1910, and A.M., 1911. Graduate Student, Bryn Mawr College, 1910-11; New York School of Philanthropy, 1912-13, 1914-15; Columbia University, 1914-15; Warden of Rockefeller Hall, 1913-14; Volunteer Social Worker, 1915-17; Director of Bryn Mawr Community Centre, 1916-19.

ISABEL MADDISON, B.Sc., PH.D., *Recording Dean and Assistant to the President.*

Reading, England. B.Sc., University of London, 1893; Ph.D., Bryn Mawr College, 1896, and B.A., Trinity College, Dublin, 1905; Girton College, University of Cambridge, England, 1889-92; Graduate in Honours, First Class, in the Cambridge Mathematical Tripos, 1892; Graduate in Honours, Final Mathematical Schools, University of Oxford, 1892; Graduate Student in Mathematics, Bryn Mawr College, 1892-93, and Fellow in Mathematics, 1893-94; Holder of the Mary E. Garrett European Fellowship and Student in Mathematics, University of Göttingen, 1894-95.

CHARLOTTE ANGAS SCOTT, D.Sc., *Alumnæ Professor of Mathematics.*

Lincoln, England. Graduate in Honours, Girton College, University of Cambridge, England, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, 1880-84; lectured in connection with Newnham College, University of Cambridge, England, 1880-83; D.Sc., University of London, 1885.

GEORGE A. BARTON, PH.D., LL.D., *Professor of Biblical Literature and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; studied under the direction of the American Institute of Hebrew, 1885-86; Harvard University, 1888-91; Thayer Scholar, Harvard University, 1889-91; A.M., Harvard University, 1890; Ph.D., Harvard University, 1891. Director of the American School of Oriental Study and Research in Palestine, 1902-03; LL.D., Haverford College, 1914.

FLORENCE BASCOM, PH.D., *Professor of Geology.*

A.B., University of Wisconsin, 1882, B.Sc., 1884, and A.M., 1887. Johns Hopkins University, 1891-93; Ph.D., Johns Hopkins University, 1893. Assistant in Geology and Instructor in Petrography, Ohio State University, 1893-95.

WILMER CAVE WRIGHT, PH.D., *Associate Professor of Greek.*

Shrewsbury, England. Girton College, University of Cambridge, England, 1888-92; Graduate in Honours, Cambridge Classical Tripos, 1892; Ph.D., University of Chicago, 1895. Fellow in Greek, Bryn Mawr College, 1892-93; Fellow in Latin, University of Chicago, 1893-94, and Fellow in Greek, 1894-95; Reader in Greek and Latin, University of Chicago, 1895-96.

JAMES H. LEUBA, PH.D., *Professor of Psychology.*

Neuchâtel, Switzerland. B.S., University of Neuchâtel, 1886; Ph.D., Ursinus College, 1888; Scholar in Psychology, Clark University, 1892-94; Fellow in Psychology, Clark University, 1893-95; Ph.D., Clark University, 1896.

* Granted leave of absence for the year 1919-20.

FONGER DEHAAN, PH.D., *Professor of Spanish.*

Leeuwarden, Holland. Ph.D., Johns Hopkins University, 1895; Instructor in Modern Languages, Lehigh University, 1885-91; Fellow in Romance Languages, Johns Hopkins University, 1893-94, Assistant in Romance Languages, 1893-95, Instructor in Romance Languages, 1895-96, and Associate in Romance Languages, 1896-97.

ARTHUR LESLIE WHEELER, PH.D., *Alumnæ Professor of Latin.*

A.B., Yale University, 1893; Scholar and Student in Classics, Yale College, 1893-96; Ph.D., Yale University, 1896. Instructor and Tutor in Latin, Yale College, 1894-1900.

HENRY NEVILL SANDERS, PH.D., *Alumnæ Professor of Greek.*

Edinburgh, Scotland. A.B., Trinity University, Toronto, 1894, and A.M., 1897; Ph.D., Johns Hopkins University, 1903. Fellow in Greek, Johns Hopkins University, 1897-98; Lecturer in Greek, McGill University, 1900-02.

WILLIAM BASHFORD HUFF, PH.D., *Professor of Physics.*

A.B., University of Wisconsin, 1889; A.M., University of Chicago, 1896; Ph.D., Johns Hopkins University, 1900. Lecture Assistant in Physics, Johns Hopkins University, 1899-1900, Assistant in Physics, 1900-01, and Instructor in Physics, 1901-02.

WILLIAM ROY SMITH,* PH.D., *Professor of History.*

A.B., University of Texas, 1897, and A.M., 1898; Ph.D., Columbia University, 1903. Acting Professor of History and Political Science, University of Colorado, 1900-01; Lecturer in History, Barnard College, 1901-02.

LUCY MARTIN DONNELLY, A.B., *Mary Elizabeth Garrett Memorial Alumnæ Professor of English.*

A.B., Bryn Mawr College, 1893; University of Oxford, England, and University of Leipsic, 1893-94; Sorbonne and Collège de France, and University of Leipsic, 1894-95.

DAVID HILT TENNENT, PH.D., *Professor of Biology.*

S.B., Olivet College, 1900; Ph.D., Johns Hopkins University, 1904. Fellow, Johns Hopkins University, 1902-04; Bruce Fellow, Johns Hopkins University, 1904.

JAMES BARNES, PH.D., *Professor of Physics.*

Halifax, Nova Scotia. B.A., Dalhousie University, Honours in Mathematics and Physics, 1899, and M.A., 1900; Ph.D., Johns Hopkins University, 1904. Holder of 1851 Exhibition Science Research Scholarship, 1900-03; Fellow, Johns Hopkins University, 1903-04, and Assistant in Physics, 1904-06; Resident Fellow, University of Manchester, 1915.

THEODORE DE LEO DE LAGUNA, PH.D., *Professor of Philosophy.*

A.B., University of California, 1896, and A.M., 1899; Ph.D., Cornell University, 1901. Teacher in the Government Schools of the Philippine Islands, 1901-04; Honorary Fellow and Assistant in Philosophy, Cornell University, 1904-05; Assistant Professor of the Philosophy of Education, University of Michigan, 1905-07.

MARION PARRIS SMITH,* PH.D., *Professor of Economics.*

A.B., Bryn Mawr College, 1901, and Ph.D., 1908. Graduate Student, Bryn Mawr College, 1902-05, Fellow in Economics and Politics, 1905-06; Bryn Mawr College Research Fellow and Student in Economics and Politics, University of Vienna, 1906-07.

CLARENCE ERROL FERREE, PH.D., *Professor of Experimental Psychology and Director of the Psychological Laboratory.*

B.S., Ohio Wesleyan University, 1900, A.M., 1901, and M.S., 1902; Ph.D., Cornell University, 1909. Fellow in Psychology, Cornell University, 1902-03; Assistant in Psychology, Cornell University, 1903-07.

GRACE MEAD ANDRUS DE LAGUNA, PH.D., *Associate Professor of Philosophy.*

A.B., Cornell University, 1903, and Ph.D., 1906. Sage Scholar in Philosophy, Cornell University, 1903-05; Alice Freeman Palmer Fellow of Wellesley College, 1905-06; Reader in Philosophy, Bryn Mawr College, 1907-08.

REGINA KATHARINE CRANDALL, PH.D., *Margaret Kingsland Haskell Professor of English Composition.*

A.B., Smith College, 1890; Ph.D., University of Chicago, 1902. Graduate Student, University of Chicago, 1893-94, and Fellow in History, 1894-96; Assistant in History, Smith College, 1896-99; Instructor in History, Wellesley College, 1899-1900.

* Granted leave of absence for the year 1919-20.

EDITH ORLADY, A.B., *Secretary and Registrar of the College.*

A.B., Bryn Mawr College, 1902. Warden of Pembroke Hall West, 1903-05, and Warden of Rockefeller Hall, 1905-06; Graduate Student, University of Grenoble, 1906-07, Bryn Mawr College, 1903-06, 1907-09; Recording Secretary and Appointment Secretary, 1910-12.

ROGER FREDERIC BRUNEL, Ph.D., *Professor of Chemistry.*

A.B., Colby University, 1903; Ph.D., Johns Hopkins University, 1906. Lecture Assistant in Chemistry, Johns Hopkins University, 1906-07; Instructor in Chemistry, Syracuse University, 1907-10, and Assistant Professor of Chemistry, 1910-12.

MATILDE CASTRO, Ph.D., *Phebe Anna Thorne Professor of Education and Director of the Phebe Anna Thorne Model School.*

A.B., University of Chicago, 1900, and Ph.D., 1907. Fellow in Philosophy, University of Chicago, 1900-01, 1903-04, 1905-06. Principal of the High School, Morris, Ill., 1901-03; Instructor in Philosophy, Mount Holyoke College, 1904-05; Instructor in Philosophy, Vassar College, 1906-09; Professor and Head of the Department of Philosophy, Rockford College, 1910-12.

GERTRUDE RAND, Ph.D., *Associate in Experimental and Applied Psychology.*

A.B., Cornell University, 1908; Ph.D., Bryn Mawr College, 1911. Graduate Scholar in Psychology, Bryn Mawr College, 1908-09, 1911-12, Fellow in Philosophy, 1909-10, Fellow in Psychology, 1910-11, and Sarah Berliner Research Fellow, 1912-13.

EUNICE MORGAN SCHENCK, Ph.D., *Associate Professor of French.*

A.B., Bryn Mawr College, 1907, and Ph.D., 1913. Graduate Student, Bryn Mawr College, 1909, Graduate Scholar, 1909-10, and Fellow in Romance Languages, 1912-13; President's European Fellow and Student, the Sorbonne, Collège de France, University of Grenoble, and in Madrid, 1910-12; Dean of the College, Bryn Mawr College, 1916-17.

SAMUEL CLAGGETT CHEW, Ph.D., *Associate Professor of English Literature.*

A.B., Johns Hopkins University, 1909, and Ph.D., 1913. Fellow, Johns Hopkins University, 1910-12; English Master, Hotchkiss School, Lakeville, Conn., 1913-14.

JEAN BAPTISTE BECK, Ph.D., *Associate Professor of Mediæval French Literature.*

Guebwiller, Alsace. Baccalaureate in Rhetoric, Sorbonne, 1900; Baccalaureate in Philosophy, Sorbonne, 1901; Ph.D., University of Strassburg, 1907; State Examination *pro facultate docendi*, 1908. Professor of Latin and German in the Ecole Alsacienne, Paris, 1909; Director of Advanced Courses for Teachers in Gymnasias, University of Vienna, 1910; Professor of French Literature, Wiener Handels-Akademie, 1910; Assistant Professor of Romance Languages, University of Illinois, 1911-14; Instructor in Romance Languages and Literatures, University of Chicago, Summer Quarter, 1912.

SUSAN MYRA KINGSBURY, Ph.D., *Carola Woerishoffer Professor of Social Economy and Director of the Carola Woerishoffer Department of Social Research.*

A.B., College of the Pacific, 1890; A.M., Leland Stanford Jr. University, 1899; Ph.D., Columbia University, 1905. University Fellow, Columbia University, 1902-03; Holder of the European Fellowship of the Women's Education Association, Boston, Mass., 1903-04; Instructor in History, Vassar College, 1904-05; Director of Investigation, Massachusetts Commission on Industrial and Technical Education, 1905-06; Instructor in History and Economics and Head of Departments, Simmons College, 1906-07; Assistant, Associate, and Professor in Economics, Simmons College and Director of the Department of Research, Women's Educational and Industrial Union, Boston, 1907-15.

GEORGIANA GODDARD KING,* A.M., *Professor of the History of Art.*

A.B., Bryn Mawr College, 1896, and A.M., 1897. Fellow in Philosophy, Bryn Mawr College, 1896-97, and Fellow in English, 1897-98; Collège de France, First Semester, 1898-99.

RHYS CARPENTER, Ph.D., *Professor of Classical Archaeology.*

A.B., Columbia University, 1909, and Ph.D., 1916; B.A., University of Oxford, 1911, and M.A., 1914. Rhodes Scholar and Student, Balliol College, University of Oxford, 1908-11; Drisler Fellow in Classics, Columbia University, 1911-13; Student, American School of Classical Studies in Athens, 1912-13.

CHARLES GHEQUIERE FENWICK, Ph.D., *Professor of Political Science.*

A.B., Loyola College, 1907; Ph.D., Johns Hopkins University, 1912. Student of Political Science, Johns Hopkins University, 1909-11; Law Clerk, Division of International Law in the Carnegie Endowment for International Peace, 1911-14; University of Freiburg, Summer, 1913; Lecturer on International Law, Washington College of Law, 1912-14.

* Granted leave of absence for the year 1919-20.

HOWARD LEVI GRAY, Ph.D., *Professor of History.*

A.B., University of Rochester, 1897; A.B., Harvard University, 1898, A.M., 1900, and Ph.D., 1907. Instructor in History, Harvard University, 1909-13, and Assistant Professor of History, 1914-15. Absent on War Service, 1918-1919.

JAMES LLEWELLYN CRENSHAW, Ph.D., *Associate Professor of Physical Chemistry.*

A.B., Centre College, 1907, and A.M., 1908; Ph.D., Princeton University, 1911. Assistant Chemist in the Geo-Physical Laboratory of the Carnegie Institution, Washington, D. C., 1910-15. Absent for Military Service, 1917-1919.

HOWARD JAMES SAVAGE, Ph.D., *Associate Professor of Rhetoric and Director of the Work in English Composition.*

A.B., Tufts College, 1907; A.M., Harvard University, 1909, and Ph.D., 1915. Instructor in English, Tufts College, 1908-11; Instructor in English, Harvard University, 1911-13, and at Radcliffe College, 1911-15; Graduate Student, Harvard University, 1908-09; 1913-15; Instructor in the Harvard Summer School, 1912, 1913, 1914, 1915. Absent for Military Service, 1917-1919.

ETHEL ERNESTINE SABIN, Ph.D., *Associate in Philosophy.*

A.B., University of Wisconsin, 1908, and A.M., 1914; Ph.D., University of Illinois, 1916. Graduate Scholar, University of Wisconsin, 1913-14; Fellow, University of Illinois, 1914-16; Assistant in English, University of Illinois, 1916-17.

ADA HART ARLITT, Ph.D., *Associate in Educational Psychology.*

A.B., H. Sophie Newcomb Memorial College of Tulane University, 1913; Ph.D., University of Chicago, 1917. Fellow in Biology, H. Sophie Newcomb Memorial College, 1913-14; Fellow in Psychology, University of Chicago, 1914-16; Fellow in Sprague Institute, 1916-17.

SAMUEL ARTHUR KING, M.A., *Non-resident Lecturer in English Diction.*

Tynemouth, England. M.A., University of London, 1900. Special Lecturer in Public Speaking, Johns Hopkins University, 1901; Special Lecturer in Speech, University of California, 1902.

ANNA JOHNSON PELL, Ph.D., *Associate Professor of Mathematics.*

A.B., University of South Dakota, 1903; M.S., University of Iowa, 1904; A.M., Radcliffe College, 1905; Ph.D., University of Chicago, 1910; Holder of Alice Freeman Palmer Fellowship of Wellesley College and Student in Mathematics, University of Göttingen, 1906-07; Instructor in Mathematics, Mount Holyoke College, 1911-14, and Associate Professor of Mathematics, 1914-18.

CHARLES WENDELL DAVID, Ph.D., *Associate Professor of History.*

R.A., Oxford University, 1911; A.M., University of Wisconsin, 1912; Ph.D., Harvard University, 1918; Rhodes Scholar. University of Oxford, 1908-1911. Instructor in history, University of Washington, 1915-18.

AGNES RUTHERFORD RIDDELL, Ph.D., *Associate in Italian.*

A.B., University of Toronto, 1896, with first class honours in Modern Languages; and A.M., 1897. Honours, Ontario Normal College, 1898. Ph.D., University of Chicago, 1916. Teacher of French and German, Oshawa High School, 1898-1901; Assistant Reader, Department of English, University of Toronto, 1902-11; Teacher of English, Branksome Hall, Toronto, 1904-05; Teacher of German, Latin and English, Westbourne School, Toronto, 1906-10, 1913-14; Graduate Student in Romance Languages, University of Chicago, January, 1912, to August, 1913; Fellow in Romance Languages, University of Chicago, 1914-15; Acting Head of Kelly Hall, University of Chicago, summers of 1913, 1914 and 1915; Professor of Romance Languages, and Dean of Women, College of Emporia, 1915-17.

SUMNER CUSHING BROOKS, Ph.D., *Associate Professor of Physiology and Biochemistry.*

B.S., Massachusetts Agricultural College, 1910; Ph.D., Harvard University, 1916. Assistant in Botanical Station, Massachusetts Agricultural College, 1910-12; Teaching Fellow in Botany, Harvard Summer School, 1917; Hanna Research Fellow, Western Reserve Animal Experimental Station, 1918; Research Fellow in Tropical Medicine and Assistant, Harvard Medical School, 1918-19.

MARCELLE PARDE, Agrégée des Lettres, *Associate in French.*

Beauvais, Oise, France. Ecole Normale Supérieure de Sévres, 1911-14. Teacher in the Lycée, Chaumont, Haute Marne, 1915-19; Student, the Sorbonne, 1911-16; Agrégée des lettres, University of Paris, 1917.

HORACE WETHERILL WRIGHT, Ph.D., *Associate in Latin.*

A.B., University of Wisconsin, 1908; Ph.D., University of Pennsylvania, 1917. Wisconsin University, 1910-11; University of Pennsylvania, 1911-13; American School of Classical Studies in Rome, 1914-15; Instructor in Latin, University of Missouri, 1917-18; Instructor in Latin, Oberlin College, 1918-19.

GEORGE HERMANN DERRY, PH.D., *Lecturer in Economics.*

Graduate in Honours, School of Philosophy and Social Science, Stonyhurst College, England, 1902; Ph.D., Holy Cross College, Worcester, Mass., 1908. Johns Hopkins University, 1902-04; Student in Paris, 1909-10; Assistant Professor of Romance Languages, University of Kansas, 1917-18; Assistant Professor of Political Science, University of Kansas, 1918-19.

EDITH E. WARE, PH.D., *Lecturer in American History.*

A.B., Goucher College, 1905; A.M., Columbia University, 1908 and Ph.D., 1916. Instructor in History, Smith College, 1914-19.

ARTHUR EDWIN BYE, PH.D., *Lecturer in History of Art.*

A.B., University of Pennsylvania, 1911; A.M., Princeton University, 1914 and Ph.D. 1918. University of Oxford, 1910-11; Princeton University, 1913-16. Instructor in English, Lafayette College, 1914-16; Assistant Professor of Art History, Vassar College, 1916-19.

EDUARD PROKOSCH, PH.D., *Lecturer in German and Anglo-Saxon.*

Eger, Bohemia. University of Prague, 1894-95; University of Vienna, 1895-97; University of Chicago, 1899-1904; *Staats Examen*, 1897; A.M., University of Chicago, 1901; University of Leipzig, 1904-05; Ph.D., University of Leipzig, 1905. Instructor in German, Francis W. Parker School and School of Education, University of Chicago, 1901-02; Instructor in German Department, University of Chicago, 1902-04; University of Wisconsin, 1905-09; Assistant Professor of German and Comparative Philology, University of Wisconsin, 1909-13; Professor of Germanic Philology, University of Texas, 1913-19.

EVA WHITING WHITE, B.S., *Non-resident Lecturer in Social Economy (Community Organization).*

B.S., Simmons College, 1907. Head Resident, Elizabeth Peabody House, Boston, Mass., 1909—; Massachusetts Board of Education, in charge of Vocational Education for Women and Girls, 1910-14; Staff Lecturer, Boston School for Social Work, 1912-14; Massachusetts Homestead Commission, 1916—; Massachusetts Immigration Commission, 1916; Survey of Public Schools, Gary, Ind., 1916; Vice-Chairman, Federal Commission on Living Conditions, 1917-19; Director of Training, Intercollegiate Community Service Association, 1919—.

NEVA DEARDORFF, PH.D., *Non-resident Lecturer in Social Economy (Social Relief).*

A.B., University of Michigan, 1908; Ph.D., University of Pennsylvania, 1911; Fellow, University of Pennsylvania, 1908-11. Staff, Assistant Director, Bureau of Municipal Research, Philadelphia, 1912-18; Chief, Department of Vital Statistics, City of Philadelphia, 1914-16; Assistant to Director-General of Civilian Relief, American Red Cross, 1918—.

HENRIETTA ADDITON, A.B., *Non-resident Lecturer in Social Economy (Social Guardianship).*

A.B., Piedmont College, 1907; Fellow, University of Pennsylvania, 1910-11, 1912-13. Instructor, History and Civics, Piedmont College, 1908-10; Agent, Philadelphia Society for Organizing Charity, 1913-14; Philadelphia Municipal Court, 1914-16; In Charge, Probation Department, Juvenile Court, 1917; Assistant Director, Director, Section on Women and Girls, Law Enforcement Division, Commission on Training Camp Activities, War Department, 1918-19; Executive Assistant and Director, Field Service, Women and Girls, United States Interdepartmental Social Hygiene Board, 1919—.

MARY HAMILTON SWINDLER, PH.D., *Instructor in Latin and Classical Archæology.*

A.B., University of Indiana, 1905, and A.M., 1906; Ph.D., Bryn Mawr College, 1912. Graduate Scholar in Greek, Bryn Mawr College, 1906-07, and Fellow in Greek, 1907-09; Mary E. Garrett European Fellow and Student, Universities of Berlin and Oxford and the American School of Classical Studies in Athens, 1909-10; Teacher in the Misses Shipley's School, Bryn Mawr, 1910-11, in Miss Wright's School, Bryn Mawr, 1911-12, and in the Phebe Anna Thorne Model School, 1914-17.

ANNE BEZANSON, A.M., *Instructor in Social Economy and Social Research.*

A.B., Radcliffe College, 1915, and A.M., 1916. Harvard University, 1915-16; Manager of Business Firm, 1903-11; Assistant in Economic Research, Harvard University, 1916-18; Lecturer on Statistics, Wellesley College, 1917-18.

MARJORIE LORNE FRANKLIN, A.M., *Instructor in Economics and Politics.*

A.B., Barnard College, 1913, and A.M., Columbia University, 1916. Graduate Scholar, Bryn Mawr College, 1913-14 and Fellow in Economics, 1914-15; Columbia University, 1915-16; Library Assistant, American Telephone and Telegraph Co., 1916-17; Instructor in Political Science, Vassar College, 1917-18.

HELEN E. FERNALD, A.B., *Instructor in History of Art.*

A.B., Mount Holyoke College, 1914. Teachers' College, 1916-18; Scientific Artist and Research Assistant, Columbia University, 1915-18.

MARY AGNES QUIMBY, PH.D., *Instructor in German.*

A.B., Bryn Mawr College, 1906; A.M., Cornell University, 1916; Ph.D., University of Pennsylvania, 1918; Teacher of German and History in the Berwyn High School, 1907-14; Graduate Student, Cornell University, 1915-16; Pepper Fellow in Germanics, University of Pennsylvania, 1916-18.

MALCOLM HAVENS BISSELL, A.M., *Instructor in Geology.*

Ph.B., Yale University, 1911 and A.M., 1918; Instructor in Engineering, University of Pittsburgh, 1913-14; Assistant in Geography, Yale University, 1917-18; with Connecticut Geological Survey, 1917.

SUE AVIS BLAKE, A.M., *Demonstrator in Physics.*

A.B., Bryn Mawr College, 1898, and A.M., 1900. Demonstrator and Graduate Student in Physics, Bryn Mawr College, 1898-99, and 1904-06, and Fellow in Physics, 1906-07; Graduate Student, Bryn Mawr College, and Teacher of Mathematics and Science in the Misses Shipley's School, Bryn Mawr, 1899-1900; Assistant in Physics, Smith College, 1900-02, 1903-04; Fellow in Physics, University of Pennsylvania, 1907-08; Instructor in Physics, Smith College, 1910-15; Bryn Mawr College, 1918-19.

CAROLINA MARCIAL DORADO, A.B., *Instructor in Spanish.*

A.B., Instituto Cardenal Cisneros, University of Madrid, 1907. Graduate Student, Wellesley College, 1909-10; University of Porto Rico, 1914-16; University of Madrid, Summer School, 1913; Columbia University, 1918-19, and University of Pennsylvania, 1918-20; Instructor in Spanish, Wellesley College, 1907-11; Assistant Professor of Spanish Literature, University of Porto Rico, 1911-17; Head of the Spanish Department of Ginn and Co., 1917-18.

ESTHER PARKER ELLINGER, PH.D., *Instructor in English Composition.*

A.B., Goucher College, 1915; Ph.D., University of Pennsylvania, 1918.

MARY SINCLAIR CRAWFORD, A.B., *Instructor in French.*

A.B., Wilson College, 1903. Teacher in the Barber Memorial Seminary, Anniston, Ala., 1903-05; and in the Misses Timlow's School, Washington, D. C., 1906; Founder and Co-Principal and Head of French Department, King-Crawford Classical School, Terre Haute, Ind., 1906-16; Dean and Head of French Department, Girtton School, Winnetka, Ill., 1916-18. Executive Secretary, Department of Women in Industry of Pennsylvania Council of National Defense, 1918-19; Community Organizer for War Camp Community Service, 1919; Graduate Student, University of Pennsylvania, 1918-19.

HELEN WALKLEY IRVIN, A.B., *Instructor in English Composition.*

A.B., Bryn Mawr College, 1915. Teacher of English and Greek and Science in the Bryn Mawr School, Baltimore, 1915-19.

GERTRUDE MARSHALL GEER,* A.B., *Instructor in English Composition.*

A.B., Barnard College, 1919.

DOROTHY MCSPARRAN; A.B.,† *Instructor in English Composition.*

A.B., Cornell University, 1918; Graduate Scholar, Yale University, 1918-20.

ABBY KIRK, A.B., *Reader in Elementary Greek.*

A.B., Bryn Mawr College, 1892. Reader in English, Bryn Mawr College, 1892-98; Associate Principal and Teacher of English and Classics in the Misses Kirk's School, Bryn Mawr, 1899-1920.

AGNES MURRAY MACFADZEAN, M.A., *Reader in English.*

Glasgow, Scotland. B.A., University of Glasgow, 1910, and M.A., 1911. Student, University of Göttingen, 1910-11; British Graduate Scholar, Bryn Mawr College, 1912-14; Teacher of French and German in the Baliol School, Yorkshire, England, 1915-17; Mail Censor, Liverpool, 1917-19.

GLADYS LOUISE PALMER, A.B., *Reader in the Department of Social Economy and Social Research.*

A.B., Barnard College, 1917. Scholar in Social Economy and Social Research, Bryn Mawr College, 1918-19.

ANNA MARGUERITE MARIE LEHR, A.B., *Reader in Mathematics.*

A.B., Goucher College, 1919.

*Resigned, February, 1920.

†Appointed, February, 1920.

MARY RUTH ALMACK, A.M., *Assistant Demonstrator in Experimental Psychology.*

A.B., Ohio State University, 1915, and A.M., 1916. Fellow in Psychology, Bryn Mawr College, 1916-18.

ISTAR ALIDA HAUPT, A.M., *Assistant Demonstrator in Applied Psychology.*

A.B., Bryn Mawr College, 1917, and A.M., 1918. Scholar in Psychology, Bryn Mawr College, 1917-18.

MARY JANE GUTHRIE, A.M., *Demonstrator in Biology.*

A.B., University of Missouri, 1916, and A.M., 1918. Assistant in Zoölogy, University of Missouri, 1916-18; Assistant Demonstrator and Honorary Scholar in Biology, Bryn Mawr College, 1918-19.

GERTRUDE WILLIAMS, M.S., *Demonstrator in Chemistry.*

B.S., Oberlin College, 1918 and M.S., 1919. Graduate Student, University of Chicago, 1918-19.

LOIS ANTOINETTE REED, A.B., B.L.S., *Librarian.*

A.B., University of Illinois, 1909; B.L.S., New York State Library School, 1904. Librarian, The Western College, Oxford, Ohio, 1905-07; Cataloguer and Order Department Assistant, Library of the University of Illinois, 1907-10; Assistant Librarian, University of Rochester, 1910-12.

MARY LOUISE TERRIEN, A.B., *Circulation and Reference Librarian.*

A.B., Smith College, 1905. Simmons College Library School, Boston, Mass., 1914-15.

MARY ISABELLE O'SULLIVAN, A.B., *Head Cataloguer.*

A.B., Bryn Mawr College, 1907; New York State Library School, 1915-16. Private Tutor and Night Librarian, Drexel Institute, 1908-09; Indexer, Estate of Stephen Girard, Philadelphia, 1909-15; Cataloguer, New York Public Library, 1916-17; Scholar in English Composition, Bryn Mawr College, 1917-18.

MAY MORRIS, Ph.B., *Assistant to the Circulation and Reference Librarian.*

Ph.B., Dickinson College, 1909. Pratt Institute School of Library Science, 1917.

BESSIE HOMER JENNINGS, *Assistant Cataloguer.*

Graduate, Drexel Institute Library School, 1900.

CONSTANCE M. K. APPLEBEE, *Director of Athletics and Gymnastics and Supervisor of Health Department.*

Licentiate, British College of Physical Education, 1898, and Member, 1899. Gymnasium Mistress, Girls' Grammar School, Bradford, Yorkshire, 1899-1900; in the Arnold Foster High School, Burnley, Yorkshire, 1899-1901; in the High School, Halifax, Yorkshire, 1900-01; Head of Private Gymnasium, Ilkley, Yorkshire, 1899-1901; Harvard School of Physical Training, summer, 1901; Hockey Coach, Vassar College, Wellesley College, Radcliffe College, Mount Holyoke College, Smith College, Bryn Mawr College, Boston Normal School of Gymnastics, 1901-04; Hockey Coach, Harvard Summer School of Gymnastics, 1906.

CONSTANCE ELEANOR DOWD, A.B., *Assistant Director of Athletics and Gymnastics.*

A.B., Bryn Mawr College, 1916. Secretary to Attending Surgeon, Roosevelt Hospital, 1917-18; Clerk, Ordnance Bureau, War Department, 1918-19.

ADMINISTRATIVE AND EXECUTIVE APPOINTMENTS.

M. CAREY THOMAS,* Ph.D., LL.D., L.H.D., *President of the College and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78; University of Leipsic, 1879-82; Ph.D., University of Zurich, 1882. Student in the Sorbonne and Collège de France, 1883; Dean of the Faculty of Bryn Mawr College and Professor of English, 1885-94.

HELEN HERRON TAFT, A.M., *Acting President of the College.*

A.B., Bryn Mawr College, 1915; A.M., Yale University, 1916; Graduate Student, Yale University, 1915-17.

* Granted leave of absence for the year 1919-20.

HILDA WORTHINGTON SMITH, A.M., *Acting Dean of the College.*

A.B., Bryn Mawr College, 1910; A.M., 1911; Graduate Student, Bryn Mawr College, 1910-11; New York School of Philanthropy, 1912-13, 1914-15; Columbia University, 1914-15; Warden of Rockefeller Hall, 1913-14; Volunteer Social Worker, 1915-17; Director of Community Centre, Bryn Mawr, 1916-19.

ISABEL MADDISON, B.Sc., Ph.D., *Recording Dean and Assistant to the President.*

Reading, England. B.Sc., University of London, 1893; Ph.D., Bryn Mawr College, 1896, and B.A., Trinity College, Dublin, 1905; Girton College, University of Cambridge, England, 1889-92; Graduate in Honours, First Class, in the Cambridge Mathematical Tripos, 1892; Graduate in Honours, Final Mathematical Schools, University of Oxford, 1892; Graduate Student in Mathematics, Bryn Mawr College, 1892-93, and Fellow in Mathematics, 1893-94; Holder of the Mary E. Garrett European Fellowship and Student in Mathematics, University of Göttingen, 1894-95.

EDITH ORLADY, A.B., *Secretary and Registrar of the College.*

A.B., Bryn Mawr College, 1902. Warden of Pembroke Hall West, 1903-05, and Warden of Rockefeller Hall, 1905-06; Graduate Student, University of Grenoble, 1906-07, Bryn Mawr College, 1903-06, 1907-09; Recording Secretary and Appointment Secretary, 1910-12.

MARIAN CLEMENTINE KLEPS, A.B., *Assistant to the Secretary and Registrar.*

A.B., and Bryn Mawr European Fellow, Bryn Mawr College, 1916. Assistant to the Recording Secretary, 1916-17; Reader in Mathematics, 1917-18.

SANDY LEE HURST, *Comptroller.*

LOUISE WATSON, A.B., *Business Manager.*

A.B., Bryn Mawr College, 1912. Teacher in Marshall College, Huntington, W. Va., 1913-14.

RUTH ELLEN LAUTZ, A.B., *Assistant Business Manager.*

A.B., Bryn Mawr College, 1916; Teacher in Miss Howe and Miss Marot's School, Thompson, Conn., 1916-17; in the Phebe Anna Thorne Model School 1917-18; Clerk, Emergency Fleet Corporation, 1918-19.

JOHN J. FOLEY, *Superintendent of Mechanical Equipment.*

GEORGE C. CHANDLER, *Superintendent of Buildings and Grounds.*

HALLS OF RESIDENCE.

MARTHA GIBBONS THOMAS, A.B., *Warden of Pembroke Hall and Director of Wardens.*

A.B., Bryn Mawr College, 1889.

ALICE MARTIN HAWKINS, A.B., *Warden of Merion Hall.*

A.B., Bryn Mawr College, 1907. Teacher in Miss Robins's School, Philadelphia, 1907-08, and in the Friends' School, Germantown, 1908-09.

EDITH ADAIR, A.B., *Warden of Rockefeller Hall.*

A.B., Bryn Mawr College, 1909. Teacher of English in the High School for Girls, Brooklyn, N. Y., 1909-19.

LESLIE RICHARDSON, A.B., *Warden of Radnor Hall.*

A.B., Bryn Mawr College, 1918. Foreign Correspondent, National City Bank, New York City, 1918.

HANNAH THAYER CARPENTER, A.B., *Warden of Denbigh Hall.*

A.B., Bryn Mawr College, 1898. Student and Teacher of Music, 1899-1919. Volunteer Social Worker, 1907-19, and Teacher, Handicraft Club of Providence, R. I., 1914-19; Teacher of Piano at Music School Settlement, New York City, 1911-13.

HARRIET JEAN CRAWFORD, A.B., *Junior Bursar.*

A.B., Bryn Mawr College, 1902. Chairman of Sectional School Board, 35th Ward, Philadelphia, 1910-16; Warden of Rockefeller Hall, Bryn Mawr College, 1907-11.

HEALTH DEPARTMENT.

HILDA WORTHINGTON SMITH, A.M., *Head of Health Department.*

HELEN HERRON TAFT, A.M., *Ex-officio.*

CONSTANCE M. K. APPLEBEE, *Health Supervisor.*

THOMAS F. BRANSON, M.D., *Physician-in-Chief.*

A.B., Haverford College, 1889; M.D., University of Pennsylvania, 1892. Attending Physician, Bryn Mawr Hospital.

MARION HAGUE REA, M.D., *Assistant Resident Physician.*

A.B., Vassar College, 1909; M.D., Woman's Medical College of Pennsylvania, 1915. Interne, Philadelphia General Hospital, 1915-16; Assistant Physician, Boston Psychopathic Hospital, 1916-17; Assistant Visiting Chief Medical Service, Philadelphia General Hospital, and Assistant in Medicine, Woman's Medical College of Pennsylvania, 1918-19.

HELEN MURPHY, M.D., *Examining Oculist.*

M.D., Woman's Medical College of Pennsylvania, 1893; Assistant Demonstrator in Histology, Woman's Medical College of Pennsylvania, 1894-96; Instructor in Materia Medica, 1896-1902; Instructor in Diseases of the Eye, Philadelphia Polyclinic and College for Graduates in Medicine, 1895-97.

The following physicians have consented to serve as consultants:

THOMAS McCRAE, M.D., F.R.C.P., 1627 Spruce Street, Philadelphia, *Consultant Physician.*

GEORGE E. DE SCHWEINITZ, M.D., 1705 Walnut Street, Philadelphia, *Consultant Oculist.*

ROBERT G. LE CONTE, M.D., 2000 Spruce Street, Philadelphia, *Consultant Surgeon.*

ARTHUR E. BILLINGS, M.D., 264 South 16th Street, Philadelphia, *Consultant Surgeon.*

FRANCIS R. PACKARD, M.D., 302 South 19th Street, Philadelphia, *Consultant Aurist and Laryngologist.*

JAMES K. YOUNG, M.D., 222 South 16th Street, Philadelphia, *Consultant Orthopodist.*

DEPARTMENT OF EDUCATION.

PHEBE ANNA THORNE MODEL SCHOOL.

MATILDE CASTRO, Ph.D., *Director.*

A.B., University of Chicago, 1900, and Ph.D., 1907. Fellow in Philosophy, University of Chicago, 1900-01, 1903-04, 1905-06. Principal of the Morris High School, Morris, Ill., 1901-03; Instructor in Philosophy, Mount Holyoke College, 1904-05; Instructor in Philosophy, Vassar College, 1906-09; Professor and Head of the Department of Philosophy, Rockford College, 1910-12. Phebe Anna Thorne Professor of Education, Bryn Mawr College.

ELSIE GARLAND HOBSON, Ph.D., *Head Mistress.*

A.B., Boston University, 1895, and A.M., 1896; Ph.D., University of Chicago, 1916. Teacher of Greek and English, High School, Lewiston, Me., 1896-97; Teacher of Greek and Latin, Academy for Women, Jacksonville, Ill., 1897-99; Principal in Greek and Latin, Academy for Women, Jacksonville, Ill., 1899-1900; Principal and Teacher of Greek and Latin, Michigan Seminary, Kalamazoo, Mich., 1900-07; Principal and Teacher of Greek and Latin, Frances Shimer Academy, Mt. Carroll, Ill., 1907-13; Teacher of Greek and Latin, Miss Spaid's School, Chicago, Ill., 1913-14; Head of High School Department and Teacher of Mathematics and History, Mary C. Wheeler School, Providence, R. I., 1914-18.

SAMUEL ARTHUR KING, M.A., *Teacher of Reading.*

Tynemouth, England. M.A., University of London, 1900. Special Lecturer in Public Speaking, Johns Hopkins University, 1901; Special Lecturer in Speech, University of California, 1902; Non-Resident Lecturer in English Diction, Bryn Mawr College.

MABEL PAULINE WOLFF, A.M., *Teacher of History.*

A.B., Barnard College, 1905, and A.M., Columbia University, 1915. Teacher, Public School, Patton, Pa., 1905-06, Allentown College for Women, 1906-07, Paulsboro High School, Gloucester City, N. J., 1907-11, Washington Seminary, Washington, Pa., 1911-14, and Leominster High School, Leominster, Mass., 1915-16.

ALICE RUTH PARKER, A.M., *Teacher of Greek and Latin.*

A.B., Mount Holyoke College, 1913, and A.M., 1915. Reader in Latin, Mount Holyoke College, 1913-15; Teacher of Latin, High School, Hudson, N. Y., 1915-17; Teacher of Latin, Cortland Normal School, Cortland, N. Y., 1917-18.

MARION MARSH TORREY, A.M., *Teacher of Mathematics.*

A.B., The Women's College in Brown University, 1916, and A.M., 1917. Teacher of Mathematics, St. Johnsbury Academy, St. Johnsbury, Vt., 1917-18.

RIDIE J. GUION, A.M., *Teacher of English.*

A.B., Wellesley College, 1911; A.M., Columbia University, 1917. Teacher of English, Graham Hall, Minneapolis, Minn., 1912-15; Miss Fine's School, Princeton, N. J., 1915-17.

JOSEPHINE WILCOX, Ph.B., *Teacher of French.*

Ph.B., University of Chicago, 1907. Teacher of French, Kenwood-Loring School, Chicago, 1907-08; Alcott School, Lake Forest, Ill., 1907-10; Tutor, Lake Forest, 1910-13; European travel and study, 1913-14; Private Class, Groton, Mass., 1914-15; Teacher of French, Adelphi Academy, Brooklyn, N. Y., 1915-16; The Finch School, New York City, 1916-17; Kenwood-Loring School, Chicago, 1917-19.

ELIZABETH RIDER MERRITT, B.S., *Teacher of Painting, Drawing and Modeling, and Crafts.*

B.S., Teachers College, Columbia University, 1918. Teacher of Fine Arts, Horace Mann School, Teachers College, New York City, 1918-19.

JEAN B. SHOE, B.S., *Teacher of Science.*

B.S., University of Pennsylvania, 1919.

N. ELLENA COLLINGE, B.S., *Teacher of Primary Department.*

B.S., Teachers College, Columbia University, 1909. Graduate Student, Columbia University, 1919.

PLACIDO DE MONTOLIU, *Teacher of Jaques-Dalcroze Eurythmics (Singing, Dancing).*

Graduate of the Jaques-Dalcroze College of Rhythmic Training, Hellerau, Germany, and only authorized Director of the Dalcroze System in the United States.

CONSTANCE M. K. APPLEBEE, *Teacher of Gymnastics and Sports and Games.*

Licentiate, British College of Physical Education, 1898, and Member, 1899. Gymnasium Mistress, Girls' Grammar School, Bradford, Yorkshire, 1899-1900; in the Arnold Foster High School, Burnley, Yorkshire, 1899-1901; in the High School, Halifax, Yorkshire, 1900-01; Head of Private Gymnasium, Ilkley, Yorkshire, 1899-1901; Harvard School of Physical Training, summer, 1901; Hockey Coach, Vassar College, Wellesley College, Radcliffe College, Mount Holyoke College, Smith College, Bryn Mawr College, Boston Normal School of Gymnastics, 1901-04; Hockey Coach, Harvard Summer School of Gymnastics, 1906. Director of Gymnastics and Athletics, Bryn Mawr College.

ADA HART ARLITT, Ph.D., *Educational Psychology.*

A.B., H. Sophie Newcomb Memorial College, Tulane University, 1913; Ph.D., University of Chicago, 1917; Fellow in Biology, H. Sophie Newcomb Memorial College, 1913-14, and Fellow in Psychology, University of Chicago, 1914-16; Associate in Educational Psychology, Bryn Mawr College.

MARION HAGUE REA, M.D., *Physician of the School.*

A.B., Vassar College, 1909; M.D., Woman's Medical College of Pennsylvania, 1915. Interne, Philadelphia General Hospital, 1915-16; Assistant Physician, Boston Psychopathic Hospital, 1916-17; Assistant Visiting Chief, Medical Service, Philadelphia General Hospital and Assistant in Medicine, Woman's Medical College of Pennsylvania, 1918-19. Assistant Resident Physician, Bryn Mawr College.

HELEN MURPHY, M.D., *Examining Oculist.*

M.D., Woman's Medical College of Pennsylvania, 1893. Assistant Demonstrator in Histology, Woman's Medical College of Pennsylvania, 1894-96; Instructor in Materia Medica, 1896-1902; Instructor in Diseases of the Eye, Philadelphia Polyclinic and College for Graduates in Medicine, 1895-97; Examining Oculist of Bryn Mawr College.

STUDENTS.

Fellows, Scholars, and Graduate Students for the Year 1919-20.

ERNESTINE EMMA MERCER,

*Bryn Mawr European Fellow and Shippen Foreign Scholar.**

Philadelphia. A.B., Bryn Mawr College, 1919. Prepared by the Girls' High School, Philadelphia. Bryn Mawr Matriculation Scholar for Pennsylvania and the Southern States, 1915-16, and Trustees' Philadelphia Girls' High School Scholar, 1915-19; Elizabeth S. Shippen Scholar in Foreign Languages, 1918-19.

MARGARET BUCHANAN, *President M. Carey Thomas European Fellow.**

Morgantown, W. Va. A.B., University of West Virginia, 1906. Graduate Student, University of West Virginia, 1907. Teacher of Mathematics, Marshall College, Huntington, W. Va., 1906-07; Assistant in Greek and Mathematics, University of West Virginia, 1908-09, and Instructor in Mathematics, 1907-12, 1915-18; Graduate Student in Mathematics, Bryn Mawr College, 1912-13; Teacher of Mathematics, Baldwin School, Bryn Mawr, 1913-14; and in the High School, Parkersburg, W. Va., 1914-15; Fellow in Mathematics, Bryn Mawr College, 1918-19.

MARY DRUSILLA FLATHER, *Mary E. Garrett European Fellow.**

Lowell, Mass. Ph.B., Women's College in Brown University, 1917. Laboratory Assistant in Comparative Anatomy, Brown University, 1916-17. Graduate Student in Biology, Bryn Mawr College, 1917-18; Fellow in Biology, 1918-19.

THERESE MATHILDE BORN, *Fellow in English.*

Indianapolis, Ind. A.B., Bryn Mawr College, 1918. Graduate Scholar in English, Bryn Mawr College, 1918-19.

MARGARET CAMERON COBB, *Fellow in Geology.*

Portsmouth, Va. A.B., North Carolina Normal College, 1912; A.B., Barnard College, 1915. Teacher in the Public Schools, Norfolk, Va., 1912-14; Student, Barnard College, 1914-15; Columbia University, 1915-16; Fellow in Geology, Bryn Mawr College, 1916-17. Instructor in Geology, Mount Holyoke College, 1917-19.

NINA LOUISE EARLY, *Fellow in History.*

Nashville, Tenn. B.S., Vanderbilt University, 1914, and M.S., 1915. Teacher in the High School, Clarksville, Tenn., 1915-19.

MONICA FLANNERY, *Fellow in Education.*

Berkeley, Calif. A.B., University of California, 1916, and A.M., 1918. Reader in Anthropology, University of California, 1917-18; Teaching Fellow in Anthropology, 1918-19; Editorial Reader, *University Press*, June to September, 1919.

HELEN FRANCES GOLDSTEIN, *Fellow in Chemistry.*

New York City. B.S., Barnard College, 1918. Scholar in Chemistry, Bryn Mawr College, 1918-19.

HOPE HIBBARD, *Fellow in Biology.*

Columbia, Mo. A.B., University of Missouri, 1916, and A.M., 1918. Assistant in Zoölogy, University of Missouri, 1915-18; Honorary Scholar in Biology and Assistant Demonstrator in Biology, Bryn Mawr College, 1918-19.

GWENDOLYN HUGHES, *Fellow in Social Economy and Social Research.*

Norfolk, Neb. A.B., University of Nebraska, 1916, and A.M., 1917. Scholar in Sociology, University of Nebraska, 1916-17, and Fellow, 1917-18. Assistant, Child Welfare Department, Lincoln Public Schools, 1917-18; Susan B. Anthony Scholar in Social Economy and Social Research, Bryn Mawr College, 1918-19.

ADA RUTH KUHN, *Fellow in Social Economy and Social Research.*

Lincoln, Neb. A.B., University of Nebraska, 1915, and A.M., 1918. Teacher of Mathematics, Physics and Botany in the High School, Stella, Neb., 1915-16; Substitute Teacher in the High School and Graduate Student, University of Nebraska, 1916-18, and Fellow, 1918-19.

* Fellowship deferred.

AMY LAWRENCE MARTIN, *Fellow in Economics and Politics.*
Chicago, Ill. A.B., Bryn Mawr College, 1915; A.M., Columbia University, 1916. Teacher
of Economics and History, Riverhook, Nyack, N. Y., 1916-19.

MARGARET GEORGIANA MELVIN, *Fellow in Philosophy.*
New Brunswick, Canada. A.B., Royal Victoria College, McGill University, with honours
in English and Philosophy, 1917. Graduate Scholar in Philosophy, Bryn Mawr College,
1917-18; Fellow in Philosophy, 1918-19.

MARJORIE JOSEPHINE MILNE, *Fellow in Latin.*
Duluth, Minn. A.B., Bryn Mawr College, 1917, and A.M., 1918. Graduate Scholar in
Greek, 1917-18, and Fellow in Greek, 1918-19.

MARGARET MONTAGUE MONROE, *Fellow in Psychology.*
Asheville, N. C. Barnard College, Columbia University, 1911-13. A.B., Mount Holyoke
College, 1915. Teacher of French, Commercial High School, Atlanta, Ga., 1915-16;
Scholar in Psychology, Bryn Mawr College, 1916-17, and Fellow in Psychology, 1918-19;
Teacher of Mathematics in Smead School, Toledo, Ohio, 1917-18.

EDITH MARION SMITH, *Fellow in Greek.*
Pittsburgh, Pa. A.B., Bryn Mawr College, 1918. Graduate Scholar in Greek, 1918-19.

BIRD MARGARET TURNER, *Fellow in Mathematics.*
Moundsville, W. Va. A.B., West Virginia University, 1915, and A.M., 1916. Student
Assistant in Mathematics, University of West Virginia, 1913-15; Graduate Student in
Mathematics, University of West Virginia, 1914-15, and Assistant in the Summer
School, 1915 and 1916; Principal of the High School, Moundsville, 1915-16; Graduate
Scholar in Mathematics, Bryn Mawr College, 1916-17; Assistant Director of the Pebe
Anna Thorne Model School, 1917-18; President's European Fellow, and Reader in Math-
ematics, Bryn Mawr College, 1918-19.

ELEANOR LANSING DULLES
Bryn Mawr Intercollegiate Community Service Association Fellow.
Auburn, N. Y. A.B., Bryn Mawr College, 1917. Relief Work in France, 1917-19.

MURIEL BARKER, *British Graduate Scholar.*
Nottingham, England. Newnham College, Cambridge, 1912-15. Mathematical Tripos,
Part I, 1913; Part II, 1915; B.Sc., University of London, 1915. Senior Mathematical
Mistress, Belvedere School, Liverpool, 1915-18; Technical Assistant, Royal Aircraft
Establishment, Farnborough, Hants, 1918-19.

EDITH MARY PRICE, *British Graduate Scholar.*
Teddington, Middlesex, England. Girton College, Cambridge, 1916-19. History Tripos,
Class II, 1919.

GERTRUDE MAYNE SINCLAIR, *British Graduate Scholar.*
Solihull, Warwickshire, England. Girton College, Cambridge, 1916-19. Classical Tripos,
Class II, Division B, 1919.

MARIE ANNE CARROI, *French Graduate Scholar.*
Langeais, Indre et Loire, France. Student, Lycée de Tours, 1913-17; Student, University of
Paris, 1917-19. Diplôme d'études secondaires, 1916; Baccalauréat, 1917; Licence de
Philosophie, 1918.

FRANCE MARIE ALICE CHALUFOR, *Special French Carola Woerishoffer
Scholar in Social Economy and Social Research.*

Boulogne sur Seine, France. Student, Lycée Molière, 1909-14. Brevet Elementaire,
1912; Diplôme de fin d'études secondaires, 1913. French Mistress, Bangor County
School for Girls, North Wales, 1915-17; Secretary, French Mission, 1917-18; Secretary,
American University Union, Paris, 1918-19.

MARGUERITE SORBETS, *Special French Carola Woerishoffer Scholar in
Social Economy and Social Research.*

Agen, Lot et Garonne, France. Student, Lycée de Agen, 1909-16; Brevet supérieure, 1916;
University of Bordeaux, 1916-19; Licence de sciences, 1919, Diplôme d'Ingénieur Chim-
iste, 1919.

SIMONE DE LA SOUCHÈRE, *French Graduate Scholar.*

Sens, Yonne, France. Student, Lycée Fénelon, 1910-13. Ecole Normale Supérieure de
Sèvres, 1913-16. Certificat d'aptitude à l'enseignement des Lettres, Part I, 1913; Part
II, 1915; admissibilité à l'agrégation d'Histoire, 1916. Professor, Collège de Garçons
de Langres, 1916-17; Collège de jeunes Filles de Sens, 1917-19.

- MARTHE JEANNE TROTAIN, *French Graduate Scholar*.
Paris, France. Certificat d'aptitude à l'enseignement d'Anglais dans les Lycées et Collèges, 1918. Student in the Sorbonne, 1916-18; Teacher in Schools in England, 1913-14, 1915-16; French Graduate Scholar, Bryn Mawr College, 1918-19.
- SIGNE ANNA MARIE BERGENSTRAHLE, . . . *Scandinavian Graduate Scholar*.
Sala, Sweden. Student, University of Upsala, 1917-19.
- EDITH ADAIR, *English*.
Brooklyn, N. Y. A.B., Bryn Mawr College, 1909. Teacher of English in the Brooklyn High School for Girls, 1909-19; Warden of Rockefeller Hall, Bryn Mawr College, 1919-20.
- HELEN ADAIR, *Fellow by Courtesy in Politics and Psychology*.
Kearney, Neb. A.B., Barnard College, 1915, and A.M., Columbia University, 1916. Fellow in Economics and Politics, 1917-19.
- MARY RUTH ALMACK, *Fellow by Courtesy in Psychology*.
Coshocton, O. A.B., Ohio State University, 1915, and A.M., 1916. Fellow in Psychology, Bryn Mawr College, 1916-18, and Assistant Demonstrator in Experimental Psychology, 1918-20.
- MARTHA ANDERSON, *Statistics*.
Watertown, Mass. B.S., Simmons College, 1919. Secretary, Consumers' League of Massachusetts, Summer, 1918; Acting Secretary, League for Democratic Control, Summer, 1919; Secretary, Department of Social Economy, Bryn Mawr College, 1919-20.
- CECILIA IRENE BAECHE, *Scholar in Education*.
Philadelphia. A.B., Bryn Mawr College, 1913. Graduate Student, University of Pennsylvania, 1913-14, Summers, 1914, 1915, 1917. Teacher of Latin, Seiler School, Harrisburg, Pa., 1914; of Latin and English, High School, York, Pa., 1914-16, and of English, 1916-19.
- LUCILE BAILEY, *Scholar in Psychology*.
Lawrence, Kan. A.B., University of Kansas, 1919.
- CORDELIA BARNES, *Penn College Scholar*.
Oskaloosa, Ia. A.B., Penn College, 1919.
- MARY ISABEL BERING, *Social Economy and Social Research*.
Decatur, Ill. A.B., Bryn Mawr College, 1914.
- ANNA MARTHA BOOTH, *English*.
Philadelphia. A.B., Bryn Mawr College, 1918. Graduate Student, Bryn Mawr College, 1918-19.
- MATILDA MOLDENHAUER BROOKS,* *Biology*.
Bryn Mawr, Pa. A.B., University of Pittsburgh, 1912, and M.Sc., 1913.
- MARGARET BUCHANAN, *Scholar in Mathematics*.
Morgantown, W. Va. A.B., University of West Virginia, 1906. Graduate Student, University of West Virginia, 1907. Teacher of Mathematics, Marshall College, Huntington, W. Va., 1906-07; Assistant in Greek and Mathematics, University of West Virginia, 1908-09, and Instructor in Mathematics, 1907-12, 1915-18; Teacher of Mathematics, Baldwin School, Bryn Mawr, 1913-14; and in the High School, Parkersburg, W. Va., 1914-15; Fellow in Mathematics, Bryn Mawr College, 1918-19; President M. Carey Thomas European Fellow (elect), 1919-20.
- ELEANOR HILL CARPENTER,† *Archæology and History of Art*.
Rosemont, Pa. A.B., Bryn Mawr College, 1916. Administrative Assistant, Ordnance Department, Washington, D. C., 1918-19.
- HANNAH THAYER CARPENTER, *Social Economy and Social Research*.
Providence, R. I. A.B., Bryn Mawr College, 1898. Student of Music, 1899-1909; Secretary of the Rhode Island Association for the Collegiate Education of Women, 1905-06; Vice-President of Social Service League, 1907-11, and Treasurer of the North End Junior Working Girls' Club, 1904-07, and President, 1907-09; Student and Teacher of Music, 1910-15; Teacher of Piano at Music School Settlement, New York City, 1911-13; Teacher, Handicraft Club of Providence, and Volunteer Social Worker, 1914-17; Warden of Denbigh Hall, Bryn Mawr College, 1919-20.

* Mrs. Sumner Cushing Brooks.

† Mrs. Rhys Carpenter.

ELEANOR COPENHAVER, . . . *Robert G. Valentine Scholar in Social Economy and Social Research.*

Marion, Va., A.B., Richmond College, Va., 1917. Teacher of Science, The High School, Marion, Va., 1917-18; Scholar in Social Economy and Social Research, Bryn Mawr College, 1918-19.

MARY SINCLAIR CRAWFORD, *French.*

Philadelphia. A.B., Wilson College, 1903. Teacher of Latin and Algebra, Barter Memorial Seminary, Anniston, Ala., 1903-05; Teacher of Latin and Head of College Preparatory Department, Miss Timlow's School, Washington, D. C., 1905-06; Founder and Co-Principal, King-Crawford Classical School, Terre Haute, Ind., 1906-16; Alliance Française, Paris, Summer, 1907; Travel and Study in Europe, Summers, 1909-13; Dean and Teacher of French, Girtton School, Winnetka, Ill., 1916-18; Graduate Student, University of Pennsylvania, 1918-19; Executive Secretary, Department of Women in Industry, Pennsylvania Council of National Defence, 1918-1919; Community Organizer for War Camp Community Service, Jan.-Sept., 1919; Instructor in French, Bryn Mawr College, 1919-20.

JANE STODDER DAVIES, . . . *Scholar in Social Economy and Social Research.*

Tuft's College, Mass. A.B., Jackson College, Tuft's College, 1918. Robert G. Valentine Scholar in Social Economy and Social Research, Bryn Mawr College, 1918-19.

CONSTANCE ELEANOR DOWD, *Psychology.*

New York City. A.B., Bryn Mawr College, 1916. Clerk, Ordnance Bureau, War Department, 1918-19; Assistant to Director of Athletics and Gymnastics, Bryn Mawr College, 1919-20.

CAROLINE HELEN DREYFOUS, *Psychology.*

New Orleans, La. A.B., Sophie Newcomb Memorial College, Tulane University, 1919.

LEONA CHRISTINE GABEL, *Fellow by Courtesy in History.*

Syracuse, N. Y. A.B., Syracuse University, 1915. Columbia University, Summer session, 1916. Teacher in the High School, Canastota, N. Y., 1915-17. Graduate Scholar in History, Bryn Mawr College, 1917-18, and Fellow in History, 1918-19. Teacher of History in the Shipley School, Bryn Mawr, 1919-20.

MARGARET GILMAN, *Scholar in French.*

Wellesley, Mass. A.B., Bryn Mawr College, 1919.

MARY JANE GUTHRIE, *Biology.*

Columbia, Mo. A.B., University of Missouri, 1916, and A.M., 1918. Assistant in Zoology, University of Missouri, 1916-18; Honorary Scholar in Biology and Assistant Demonstrator in Biology, Bryn Mawr College, 1918-19; Demonstrator in Biology, 1919-20.

EMMA M. HAIGH, *Spanish.*

Ardmore, Pa. B.S., Teachers' College, Columbia University, 1909; A.M., University of Pennsylvania, 1911. Teacher of German, Friends' Central School, Philadelphia, 1901-03; Head of German Department, Trenton Normal School, 1903-08; Teacher of German, Philadelphia High School for Girls, 1909-12; of German and Spanish, West Philadelphia High School for Girls, 1912—.

GRACE HAMILTON HATHEWAY, *Social Economy and Social Research.*

St. John, New Brunswick, Canada. A.B., Oberlin College, 1911. Manuscript Reader, *St. Nicholas Magazine*, 1912-13; Secretary-Editor, *The American Magazine*, 1914-15; Manager, Correspondence Department, *Encyclopedia Britannica*, 1916-19.

ISTAR ALIDA HAUPT, *Psychology.*

Roland Park, Md. A.B., Bryn Mawr College, 1917, and A.M., 1918. Graduate Scholar in Psychology, Bryn Mawr College, 1917-18, and Assistant Demonstrator in Applied Psychology, 1918-20.

ALICE MARTIN HAWKINS, *Economics.*

Germantown, Philadelphia. A.B., Bryn Mawr College, 1907. Teacher of English, Miss Robins' School, Mt. Airy, Philadelphia, 1907-08; Germantown Friends' School, Philadelphia, 1908-09; Warden of Merion Hall, Bryn Mawr College, 1916-20.

MARGARET HUDSON, *French.*

Philadelphia. A.B., Bryn Mawr College, 1909. Head of Department of French in the New Jersey Normal School, Trenton, N. J., 1910-15; Teacher of Latin and French in the West Philadelphia High School for Girls, 1915-20; Graduate Student in French, Bryn Mawr College, 1912-13, 1918-19.

- ELIZABETH PINNEY HUNT, * *Social Economy and Social Research.*
 Haverford, Pa. A.B., Bryn Mawr College, 1912. Social Service Work in National Progressive Party, 1913-14; Graduate Student, Bryn Mawr College, 1917.
- ELEANOR JAMES, *Social Economy and Statistics.*
 Philadelphia. A.B., Bryn Mawr College, 1902. Teacher in Public School, Milford, Del. 1902-03; Teacher of Latin in Miss Gleim's School, Pittsburgh, Pa., 1903-04, of Latin and English, 1904-05, and of Latin, 1905-08; Graduate Student, Bryn Mawr College, First Semester, 1908-09, and Graduate Scholar, 1910-11; Head of Latin Department in the Misses Shipley's School, Bryn Mawr, 1908-10, and in the Rye Seminary, Rye, N. Y., 1911-17; Head of Latin Department, Devon Manor School, Devon, Pa., 1917-18; Research Worker and Statistician, Emergency Fleet Corporation, 1918-19; Teacher and Educational Research Worker, John Wanamaker's Store, 1919-20.
- MYRA RICHARDS JESSEN, † *Latin.*
 Rosemont, Pa. A.B., Bryn Mawr College, 1915.
- MARGARET COLLINS KNAPP, *Scholar in Philosophy.*
 Marcellus, N. Y. A.B., Cornell University, 1919.
- ANNA MARGUERITE MARIE LEHR, *Mathematics.*
 Baltimore, Md. A.B., Goucher College, 1919. Reader in Mathematics, Bryn Mawr College, 1919-20.
- AGNES MURRAY MACFADZEAN, *Education.*
 Glasgow, Scotland. B.A., University of Glasgow, 1910 and M.A., 1911. Student, University of Göttingen, 1910-11; British Graduate Scholar, Bryn Mawr College, 1912-13, and Special British Graduate Scholar, 1913-14; Teacher of French and German, 1915; Teacher of French and German in the Baliol School, Sedbergh, Yorkshire, 1915-16; Mail Censor, Liverpool, 1916-19; Reader in English, Bryn Mawr College, 1919-20.
- FLORENCE REYNOLDS MASON, *Social Economy and Social Research.*
 Elmira, N. Y. A.B., Elmira College, 1918. Graduate Student in Industrial Supervision Course, Bryn Mawr College, 1918-19; Secretary, Department of Social Economy, 1919-20.
- BEATRICE McGEORGE, *Education.*
 Cynwyd, Pa. A.B., Bryn Mawr College, 1901. Teacher of English and French in Miss Keyser's School, Philadelphia, 1902-03, and in the Agnes Irwin School, Philadelphia, 1918-20; Graduate Student, Bryn Mawr College, 1902-03, 1918-19, and Tutor in French, 1918-19.
- ERNESTINE EMMA MERCER, *Scholar in Latin.*
 Philadelphia. A.B., Bryn Mawr College, 1919. Bryn Mawr European Fellow (elect) and Shippen Foreign Scholar (elect), 1919-20.
- CATHERINE NEEDHAM, *Margaret Kingsland Haskell Scholar in English Composition.*
 Urbana, Ill. A.B., University of Illinois, 1918, and A.M., 1919.
- ALICE MAYNARD FIELD NEWKIRK, ‡ . . . *Social Economy and Social Research.*
 Radnor, Pa. A.B., University of Cincinnati, 1899. Substitute Teacher, Detroit Public Schools, 1900-01; Student of Eugenics with Dr. Charles B. Davenport, Summer, 1912; President of Pennsylvania College Equal Suffrage League, 1915-17; Examiner, Woman's Division, U. S. Employment Service, 1918.
- ALICE HARRISON NEWLIN, *Scholar in Philosophy.*
 Whitford, Pa. A.B., Bryn Mawr College, 1918.
- MARY ISABELLE O'SULLIVAN, *History.*
 Philadelphia. A.B., Bryn Mawr College, 1907. Private Tutor and Night Librarian, Drexel Institute, 1908-09; Indexer, Estate of Stephen Girard, 1909-15; New York State Library School, 1915-16; Cataloguer, New York Public Library, 1916-17; Scholar in English Composition, Bryn Mawr College, 1917-18; Head Cataloguer, Bryn Mawr College, 1918-20.
- ALICE RUTH PARKER, *Politics.*
 West Barrington, R. I. A.B., Mount Holyoke College, 1913, and A.M., 1915. Reader of Latin, Mount Holyoke College, 1913-15; Teacher of Latin in the High School, Hudson, N. Y., 1915-17, in the High School, Cortland, N. Y., 1917-18, and in the Phebe Anna Thorne Model School, 1918-20.

*Mrs. Andrew Dickson Hunt. † Mrs. Karl Detlev Jessen.

‡ Mrs. Walter M. Newkirk.

- FRANCES SHIPMAN PENROSE, *Scholar in Politics*.
Walla Walla, Wash. A.B., Whitman College, 1919.
- MARY DEMING PENROSE, *Scholar in History*.
Walla Walla, Wash. A.B., Whitman College, 1918. Secretary, Y. W. C. A., Walla Walla, 1918-19.
- ETHEL MARTHA POWIS, *Chemistry and Biology*.
Trenton, N. J. A.B., Mount Holyoke College, 1919.
- LESLIE RICHARDSON, *Social Economy and Social Research*.
Cambridge, Mass. A.B., Bryn Mawr College, 1918. Warden of Radnor Hall, Bryn Mawr College, 1919-20.
- DOROTHY AUSTIN SEWELL, *Chemistry and Biology*.
Walton, N. Y. A.B., Smith College, 1916. Cornell University, 1916-17. Fellow in Biology, Bryn Mawr College, 1917-18, and Scholar in Biology, 1918-19.
- FLORENCE ALICE SMITH, *Scholar in English*.
Goderich, Ontario, Canada. A.B., University of Toronto, 1919.
- ISABEL F. SMITH, *Scholar in Geology*.
Los Angeles, Calif. A.B., Bryn Mawr College, 1915. Teacher in Miss Wheeler's School, Providence, R. I., 1915-17; Graduate Scholar in Geology, Bryn Mawr College, 1917-18; President M. Carey Thomas European Fellow and Fellow in Geology, 1918-19.
- KATE BRITTAIN SMITH, *Guilford College Scholar*.
Summerfield, N. C. A.B., Guilford College, 1919.
- HELEN ELIZABETH SPALDING, *Social Economy and Social Research*.
Detroit, Mich. A.B., Bryn Mawr College, 1919.
- MARY RYAN SPILLANE,* *Spanish*.
Philadelphia. A.B., Bryn Mawr College, 1909. Assistant in English in the Lower Merion High School, 1909-13; Oral Tutor in German, Bryn Mawr College, 1912-13; Private Tutor, 1909-20.
- LILA VIRGINIA STEVENSON, *Latin*.
Brooklyn, N.Y. A. B., Cornell University, 1916. Teacher of Latin in Science Hill School, Shelbyville, Ky., 1917-19; in the Baldwin School, Bryn Mawr, 1919-20.
- FANNIE ESPEN TELLER, *English*.
Philadelphia. A.B., Bryn Mawr College, 1918. Smith College, Summer, 1918. Social Worker, American Red Cross, Philadelphia, 1918-20.
- MARIAN MARSH TORREY *Mathematics*.
Providence, R. I. A.B., the Women's College in Brown University, 1916, and A.M., 1917. Teacher of Mathematics in St. Johnsbury Academy, St. Johnsbury, Vt., 1917-18, and in the Phebe Anna Thorne Model School, Bryn Mawr College, 1918-20. Graduate Student, Bryn Mawr College, 1918-19.
- GWEI HSIN WANG, *Scholar in Chemistry*.
Kiukiang, Kiangsi, China. A.B., Western College, 1919.
- AMEY EATON WATSON,† *Social Economy and Social Research*.
Haverford, Pa. A.B., Women's College in Brown University, 1907; A.M., University of Pennsylvania, 1910. Teacher in Miss Wheeler's School, Providence, R. I., 1907-08; Instructor in the Department of Social Science, University of Utah, 1912; Graduate Student, Bryn Mawr College, 1915-19.
- LEDA FLORENCE WHITE. *Social Economy and Social Research*.
Philadelphia. A.B., Bryn Mawr College, 1904; A.M., University of Pennsylvania, 1913. Columbia University, 1914-15; Teacher of Latin and French, Moorestown, N. J., 1904-08; of English and History, Germantown Friends' School, Philadelphia, 1908-14; Statistical Secretary for New York Commission on Welfare of Teachers, 1915-16; Investigating Clerk, Guaranty Trust Co., New York City, 1916-17; Assistant Professor in Statistics, Drexel Institute, Philadelphia, 1918-20.

* Mrs. Timothy J. Spillane.

† Mrs. Frank D. Watson.

- MABEL PAULINE WOLFF, *Politics*.
Myerstown, Pa. A.B., Barnard College, 1905; A.M., Columbia University, 1915.
Teacher, Public School, Patton, Pa., 1905-06; Allentown College for Women, 1906-07;
Paulsboro High School, Paulsboro, N. J., 1907-11; Washington Seminary, Washington,
Pa., 1911-14, Leominster High School, Leominster, Mass., 1915-16; Teacher in the
Phebe Anna Thorne Model School, 1916-20.
- HELEN FRANCES WOOD, *Scholar in Latin*.
South Hadley Falls, Mass. A.B., Mount Holyoke College, 1918.
- RUTH JACKSON WOODRUFF, *Scholar in Psychology*.
Scranton, Pa. A.B., Bryn Mawr College, 1919.
- JOSEPHINE LUCILLE ZRUST, . . . *Susan B. Anthony Scholar in Social Economy
and Social Research*.
Clarkson, Neb. A.B., University of Nebraska, 1919.

GRADUATE STUDENTS IN INDUSTRIAL SERVICE COURSE.

- MARGARET ETHEL DURGIN, *Social Economy and Social Research*.
Concord, N. H. A.B., Mount Holyoke College, 1913. Cornell University, Summer, 1916.
Teacher of Latin, French and History, High School, Waterbury, Vt., 1913-14; of English
in the High School, Concord, N. H., 1914-15, and of Latin, 1915-19.
- LISETTE EMERY FAST, *Social Economy and Social Research*.
Denver, Colo. A.E., Leland Stanford, Jr., University, 1919.
- JOSEPHINE GUYOT, *Social Economy and Social Research*.
Rochester, N. Y. A.B., Radcliffe College, 1918. Private Tutor, 1918-19.
- EMILY HARRIET HUNTINGTON, *Social Economy and Social Research*.
San Francisco, Calif. A.B., University of California, 1917.
- BARBARA LEE JOHNSON, . . *Special Bryn Mawr Intercollegiate Community
Service Association Fellow*.
Mexico, Mo. A.B., Smith College, 1919. Head Counselor, Y. W. C. A. Camp, Monte
Bello, Mo., 1918-19.
- SADIE MAY KRAUS, *Social Economy and Social Research*.
Indianapolis, Ind. A.B., Butler College, 1907. Chicago School of Philanthropy, Autumn,
1917. Teaching, 1897-1900, 1905-09.
- EVELYN CHRISTIANA MCKAY, *Social Economy and Social Research*.
Goldbar, Wash. A.B., University of British Columbia, 1919.
- WINIFRED CHARLOTTE MILES, *Social Economy and Social Research*.
Berkeley, Calif. A.B., University of California, 1919.
- GLADYS LOUISE PALMER, *Social Economy and Social Research*.
Philadelphia. A.B., Barnard College, 1917. Scholar in Social Economy and Social
Research, Bryn Mawr College, 1917-18; Research Secretary, Carola Woerishoffer
Department of Social Economy and Social Research, 1918-19.
- LOUISE MAY TATTERSHALL, *Social Economy and Social Research*.
White Haven, Pa. A.B., Barnard College, 1908. Teachers' College, Summer, 1914.
Assistant Principal of the High School, White Haven, 1909-11; Teacher of Mathematics
in Wykeham Rise, Washington, Conn., 1914-15, and in the Phebe Anna Thorne Model
School, Bryn Mawr College, 1915-16; Graduate Student, Bryn Mawr College, 1915-16.
- AGNES STERRETT WOODS, *Social Economy and Social Research*.
Carlisle, Pa. A.B., Dickinson College, 1917, and A.M., 1918.

SUMMARY OF FELLOWSHIPS AWARDED.

EUROPEAN FELLOWSHIPS.	Founded by	Date.	Number of Holders.
Bryn Mawr (for Senior Class)	The Trustees	1885	31
Mary Elizabeth Garrett (for second year graduates).....	Miss Garrett	1894	26
President M. Carey Thomas (for first year graduates).....	Miss Garrett	1896	24
Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology.....	Mrs. Anna Woerishoffer	1907	7††
SPECIAL EUROPEAN FELLOWSHIPS.	Given by.		
Bryn Mawr Research.....	Anonymous Donor	1906	1
Special European.....	Anonymous Donor	1909	1
Special European.....	Anonymous Donor	1915	1
Special European.....	Anonymous Donor	1916	1
Total number of European Fellows, omitting duplicates.....			90

RESIDENT FELLOWSHIPS.	Founded by the Trustees in	Number of Holders.
In Greek.....	1885.....	30**††
In Latin.....	1892.....	27
In English.....	1885.....	31*§
In Teutonic Philology.....	1893.....	18††
In Romance Languages.....	1893.....	20§
In Semitic Languages.....	1912.....	3††
In History or Economics and Politics.....	1885.....	31††
In Economics and Politics.....	1912.....	7††
In Social Research.....	1915.....	7††
In Philosophy or Psychology.....	1896.....	16§§
In Psychology.....	1915.....	4§
In Education.....	1917.....	3
In Archæology.....	1909.....	5§
In Mathematics.....	1885.....	27††
In Physics.....	1896.....	13
In Chemistry.....	1893.....	21§§
In Geology.....	1912.....	7
In Biology.....	1885.....	26††
Research Fellowship in Chemistry.....	1907.....	3†
Helen Schaeffer Huff Research Fellowship in Physics or Chemistry, founded by an anonymous donor in 1913.....		3†§
Total number of Resident Fellows, omitting duplicates.....		300

Total holders of Fellowships, omitting duplicates..... 353‡

* Two students have held Fellowships in English who also held Fellowships in other subjects.

† Two of these students previously held a Fellowship in Chemistry.

‡ Of these fifty-six have held both European and Resident Fellowships.

§ One student held this Fellowship for two years.

** One of these students previously held a Fellowship in Latin and one a Fellowship in English.

†† Two students held this Fellowship for two years.

‡‡ Three students held this Fellowship for two years.

§§ Four students held this Fellowship for two years.

¶ One of these students previously held a Fellowship in Chemistry.

BRYN MAWR COLLEGE.

GRADUATE COURSES OF INSTRUCTION.

BRYN MAWR COLLEGE, situated at Bryn Mawr, Pennsylvania, five miles from Philadelphia, was endowed by Dr. Joseph W. Taylor of Burlington, New Jersey, who died January 18, 1880. By his will he left the greater portion of his estate for the purpose of establishing and maintaining an institution of advanced learning for women. In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn.

Three classes of persons are admitted to the lectures and class work of the college—graduate students, undergraduate students, and hearers. For the convenience of graduate students the regulations of the graduate department and the graduate courses of instruction are published separately. No undergraduates are admitted to graduate courses.

Regulations of the Graduate Department.

From the first it has been the policy of the Trustees of Bryn Mawr College to organize no department in which they could not provide for graduate as well as undergraduate study. Only such instructors have been chosen as are qualified to direct both graduate and undergraduate work. In each department a consecutive series of graduate courses pursued throughout three years provides preparation in the chief or major subject of the examination for the degree of Doctor of Philosophy, and certain courses may be pursued for one or two years and offered as one of the two minor or secondary subjects.

Admission.

Graduate students must have presented a diploma from some college of acknowledged standing.* They may pursue any

* The certificates of the women's colleges of the English Universities of Oxford and Cambridge are regarded as equivalent to a first degree,—i. e., to the degree of Bachelor of Arts.

courses offered by the college for which their previous training has fitted them; but they must satisfy the several instructors of their ability to profit by the courses they desire to follow, and may be required to pursue certain introductory or auxiliary studies before they are admitted to the advanced or purely graduate courses. They are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations from the instructors, and their needs will be considered in the arrangement of new courses of lectures; they must consult the President in regard to the courses they are to pursue, and must be duly registered for those courses at the President's office.

A reading knowledge of French and German is regarded as of the utmost importance to all graduate students, and is required of all candidates for a second degree. The undergraduate department will afford the student every opportunity for making good any deficiencies in this respect.

Fellowships and Scholarships.

The most distinguished place among the graduate students is held by the Fellows, who must reside in the college during the academic year. Eighteen resident fellowships, of the value of five hundred and thirty dollars each, are awarded annually in Greek, Latin, English, Romance Languages, Semitic Languages and Biblical Literature, History, Philosophy, Psychology, Education, Archæology, Mathematics, Physics, Chemistry, Geology, and Biology, in Economics and Politics, named the Justus C. Strawbridge Fellowship, and two in Social Economy and Social Research, the Carola Woerishoffer Fellowships. They are open for competition to graduates of Bryn Mawr College, or of any other college of good standing, and will be awarded only to candidates who have completed at least one year of graduate work after obtaining their first degree. The fellowships are intended as an honour, and are awarded in recognition of previous attainments; generally speaking, they will be awarded to the candidates that have studied longest or to those whose work gives most promise of future success.

The holder of a fellowship is expected to devote at least one half her time to the department in which the fellowship is awarded, and to show, by the presentation of a thesis or in

some other manner, that her studies have not been without result.

The Helen Schaeffer Huff Memorial Research Fellowship founded in 1913, is awarded annually to a student desiring to carry on research in either Physics or Chemistry, to be held during one year's work at Bryn Mawr College. The value of the Fellowship in 1920-21 will be twelve hundred dollars.

Applicants for this fellowship must be students who have done advanced graduate work at Bryn Mawr College or at other colleges or universities and have shown capacity for research. The award of the fellowship will depend primarily upon the record of the applicant as a research student. Where equally good candidates are considered, preference will be given to a student working on problems which may be considered to lie along the borderline between Chemistry and Physics. The fellowship may under exceptional circumstances be awarded in consecutive years to the same student, or the fellowship may be given to a graduate student studying at Bryn Mawr College to be held during one year's work at some other American college or university if in the opinion of the Committee it is imperative for that student to go to some other college or university in order to complete an important piece of investigation.

All fellows may study for the degree of Doctor of Philosophy, the fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Fellows that continue their studies at the college after the expiration of the fellowship, may, by a vote of the directors, receive the rank of Fellows by Courtesy.

Fellows are expected to attend all college functions, to wear academic dress, to assist in the conduct of examinations, and to give about an hour a week to the care of departmental libraries in the seminaries and in the halls of residence, but no such service may be required of them except by a written request from the president's office; they are not permitted, while holding the fellowship, to teach, or to undertake any other duties in addition to their college work. Fellows* are required

* It is expected that fellows and scholars of the college will uphold the college standards of scholarship and conduct and give loyal support to the Students' Association for Self-Government.

to reside in the college and are assigned rooms by the Secretary of the College. They are charged the usual fee of five hundred and thirty dollars for tuition, board, room-rent, and infirmary fee.

Twenty Graduate Scholarships, of the value of two hundred dollars each, may be awarded to candidates next in merit to the successful candidates for the fellowships; they are also open for competition to graduates of Bryn Mawr College, or of any other college of good standing. Scholars* are expected to reside in the college, to attend all college functions, to wear academic dress, and to assist in the conduct of examinations. They may undertake, while holding the scholarship, only a very limited amount of teaching or other paid work approved in advance by the President's office.

The Margaret Kingsland Haskell resident scholarship in English Composition of the value of seven hundred and fifty dollars is offered in 1919-20 and in each succeeding year and in 1920-21 and each alternate year thereafter a second scholarship in English composition of the same value will be offered. These scholarships are open to graduates of Bryn Mawr College or of any college of good standing under the same conditions as the twenty graduate scholarships mentioned above.

A resident Intercollegiate Community Service Association and Bryn Mawr College joint fellowship† was established in 1915 and is offered by the Intercollegiate Community Service Association and by some alumnae of Bryn Mawr College to a Bryn Mawr College graduate who wishes to prepare herself for settlement work. The value of the fellowship is \$625, \$125 of which is given by the College to meet the tuition fee. The holder of the fellowship is required to live in the College Settlement in Philadelphia and to give her entire time to the work of the Department of Social Economy. There is a charge of \$7.00 a week for board and lodging in the Settlement and in addition to the usual charge of \$125 for the graduate tuition fee in Bryn Mawr College, the usual laboratory and transporta-

* It is expected that fellows and scholars of the college will uphold the college standards of scholarship and conduct and give loyal support to the Students' Association for Self-Government.

† The term fellowship is used here because adopted by the Intercollegiate Community Service Association. The condition of one year's graduate study required of candidates for Bryn Mawr College resident fellowships does not apply.

tion fees. Applications may be sent to the President of Bryn Mawr College.

Two additional joint fellowships of the value of \$450 are offered by the Intercollegiate Community Service Association in conjunction with Smith College and Wellesley College, to graduates of Smith College and Wellesley College, respectively, who wish to prepare themselves for community service. These scholarships may be held in connection with the College Settlement of Philadelphia.

The Susan B. Anthony Memorial Research Scholarship in Social Economy and Social Research or in Politics, of the value of four hundred and fifty dollars, was founded by the Executors of the late Susan B. Anthony, the late Dr. Anna Howard Shaw and Miss Lucy E. Anthony, in memory of Susan B. Anthony's work for women's college education. The holder is expected to devote one-third of her time to the study of politics and to investigate educational, social or industrial conditions affecting women.

The Robert G. Valentine Memorial Scholarship in Social Economy and Social Research of the value of two hundred dollars is offered by Mrs. Frank W. Hallowell of Chestnut Hill, Massachusetts, to be awarded by the President and Faculty of Bryn Mawr College on the recommendation of the Director of the Carola Woerishoffer Department of Social Economy and Social Research to a candidate approved by the donor. It is open to graduates of Bryn Mawr College or of any other college of good standing.

Two or more Scholarships in Industrial Supervision and Employment Management and two or more in Community Organization, each of the value of three hundred dollars, are offered in the Department of Social Economy and Social Research.

In the year 1920-21 nine graduate scholarships for foreign women of the value of five hundred and thirty dollars each are offered; of these three may be awarded to English, Scotch, or Irish women, three to French women, two to Spanish women, two to Italian women, one to Swiss women or women from Scandinavia or the Netherlands. Candidates are required to have a preparation for graduate study equivalent to that

denoted by the Bachelor's degree of an American college or university of acknowledged standing. Renewal of these scholarships for a second year will not be granted except in very exceptional cases.

Holders of the scholarships are required to be in continuous residence at the college and to follow regular approved courses of study. The scholarships are of the value of \$530 and cover only the fees for board, residence, and tuition at Bryn Mawr College for one academic year. In addition those holders of scholarships who so desire will be given an opportunity to teach or do some other kind of work in the college for not more than five hours a week and the college will guarantee that each scholar who wishes may in this way earn \$100. In special cases when tutoring can be arranged for five hours a week throughout the year the sum earned may amount to \$200. The scholars are not permitted to accept any other paid position except as arranged by the college. Holders of the scholarships must meet their own travelling expenses. A furnished single room in the graduate wing of one of the halls of residence is assigned to each scholar, but this is not available in the Christmas and Easter vacations when scholars who remain at the college have to pay the expenses of board and residence.*

Two special graduate scholarships in Social Economy of the value of \$530 are offered by two anonymous donors for the year 1919-20 to French women who wish to devote themselves to preparation in Industrial Supervision and Employment Management under the Carola Woerishoffer Graduate Department of Social Economy and Social Research. They are open for competition to French women whose preparation and experience especially fits them for this type of work. The other conditions of award are the same as those stated in the preceding paragraph.

Application for resident fellowships or scholarships should be made as early as possible to the President of the College,† and

* For the rates see page 39.

† Applications for the scholarships for foreign women should be accompanied by full particulars of the candidate's academic work, by diplomas or certificates, and by letters of recommendation from professors, and should be addressed to the office of the Recording Dean, Bryn Mawr College, Bryn Mawr, Pennsylvania, U. S. A., if possible by May the first, or in the case of French students they may be addressed to M. Petit Dutailis, Office Nationale des Universités et Ecoles Françaises, 96 Boulevard Raspail, Paris.

must be made not later than the first of April preceding the academic year for which the fellowship or scholarship is desired. Blank forms of application will be forwarded to the applicants. A definite answer will be given within about two weeks from the latest date set for receiving applications. Any original papers, printed or in manuscript, which have been prepared by the applicant and sent in support of her application, will be returned, when stamps for that purpose are enclosed, or specific directions for return by express are given. Letters or testimonials from professors and instructors will be filed for reference.

The Anna Ottendorfer Memorial Research Fellowship in German and Teutonic Philology of the value of seven hundred dollars applicable to the expenses of one year's study and residence at some German university is awarded annually to a graduate student who has completed at least one year of graduate study at Bryn Mawr College. The fellowship will be awarded to the candidate who has pursued the most advanced work, or whose studies afford the most promise of future success. She must show such proficiency in her studies or in independent work as to furnish reason to believe that she will be able to conduct independent investigations in the field of Teutonic Philology or German.

Two European fellowships, founded by the late Miss Mary Elizabeth Garrett, of Baltimore, are open to graduate students who are enrolled as candidates for the degree of Doctor of Philosophy. One, founded in 1896, and named by the donor the President M. Carey Thomas Fellowship, is awarded annually on the ground of excellence in scholarship to a student in her first year of graduate work at Bryn Mawr College; the other, founded in 1894, and known as the Mary Elizabeth Garrett Fellowship, is awarded annually on the ground of excellence in scholarship to a student still in residence who has for two years pursued graduate studies at Bryn Mawr College. These fellowships, of the value of five hundred dollars each, are intended to defray the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the Faculty.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges who shall have satisfied the Academic Council that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may apply to the Academic Council to be enrolled as candidates for the degree of Master of Arts or for the Degree of Doctor of Philosophy and Master of Arts; admission to the graduate school does not, in itself, qualify a student to become a candidate for these degrees.

The Degree of Master of Arts.

The degree of Master of Arts may be conferred upon graduates of Bryn Mawr College and upon graduates of other colleges who shall have satisfied the Graduate Committee that their course of study has been equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or that it has been adequately supplemented by subsequent study.

REQUIREMENTS.

The candidate must attend at Bryn Mawr College three seminars, or their equivalent in graduate courses, unless by permission of the Graduate Committee she is allowed to substitute post-major (third or fourth year undergraduate) courses for one of the seminars. Preliminary training equivalent to the Bryn Mawr College undergraduate major courses in the subject of the seminary, or in related subjects of equal value in preparation, is required for admission to a seminary. Each seminary requires one-third of the student's time for one year. The minimum time in which the work can be completed is therefore one year, but the work cannot be done in one year unless the candidate is thoroughly prepared in all the subjects she offers, and gives her entire time to graduate study.

The candidate is required to pass with a creditable grade written examinations on the seminars or courses offered, such examinations to be held in the first week of the May examination period.

The degree will not be given to anyone who cannot read French and German or who is unacquainted with Latin. The Graduate Committee will provide written examinations in French and German twice each year, namely once during the week before Thanksgiving and once during the week before the spring vacation. Students who have already passed the general language examinations of the College in these languages may be excused from this requirement.

Registration.—The applicant for the degree must register with the Graduate Committee during October of the academic year in which she intends to take her degree, and her statement shall contain the approval of her courses by her instructors.

The Degree of Doctor of Philosophy and Master of Arts.

The degree of Doctor of Philosophy and Master of Arts may be conferred upon graduates of Bryn Mawr College, and upon graduates of other colleges who shall have satisfied the Academic Council either that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given by Bryn Mawr College, or that it has been adequately supplemented by subsequent study. The degree is given to no one who cannot read French and German, or who is unacquainted with Latin. The degree of Doctor of Philosophy will in no case be conferred by the College as an honorary degree.

REQUIREMENTS.

1. *Time.*—The earliest date at which the Ph.D. degree may be taken is three years after graduation, but the element of time is subordinate to the other requirements. The minimum of three years will usually be exceeded.

2. *Residence.*—The candidate must devote to graduate work the equivalent of three full years, of which at least two must be at Bryn Mawr, and the third if not at Bryn Mawr at some other college or university approved by the Graduate Committee.

3. *Subjects.*—The course of study shall consist of one major subject and two minor subjects, of which one (the associated minor) shall be in the same department as the major subject, or in a closely allied department specified in the printed requirements; the other (the independent minor) shall complete a combination authorized in the printed requirements. Certain combinations will permit the independent minor to be taken in the same department as the associated minor, when this is not in the same department as the major subject. The printed list of independent minors shall consist of subjects that are recommended, and the Graduate Committee shall have power to accept subjects not specified in the list.

4. *Courses.*—During the three years devoted to graduate work the candidate shall take a certain number of seminaries stated below; in case any part of the three years is spent at some other college or university, the Graduate Committee shall determine the Bryn Mawr equivalents of the courses there taken.

In the major subject together with the associated minor the candidate shall take during each of three years one journal club and two seminaries,

* It is understood that the work done for the degree of Master of Arts does not necessarily count as a full year towards the degree of Doctor of Philosophy and Master of Arts.

or graduate courses recognized by the Graduate Committee as seminars;* in the independent minor she shall take for one year two seminars, or graduate courses recognized as seminars. The division of the seminars between the major and the associated minor shall be subject to the approval of the Supervising Committee. In no case shall less than two seminars and one journal club for two years be taken in the major subject.

The required courses may be spread over more than three years; but the student may not take four required seminars with one instructor unless authorized by the Graduate Committee.

No post-major work or work equivalent to post-major shall count towards the degree, even though a candidate may be obliged to take such work in order to supplement her preparation in her subjects, except in the case of such courses in science as shall be designated in the calendar and accepted by the Graduate Committee as equivalent to graduate seminars in virtue of assigned supplementary reading or laboratory work or both.

Of the courses required in the major and associated minor, two seminars and one journal club for at least two years must be taken before the Preliminary Examination, as well as the whole of the work in the independent minor. All must be completed before the Final Examination.

5. *Dissertation*.—The dissertation must be the result of independent investigation in the field covered by the major subject, under such direction as may be necessary; it must contain new results, arguments, or conclusions, or it must present accepted results in a new light. It must be published within three years from the Commencement after the candidate has passed the Final Examination, unless a special extension of time is granted by the Graduate Committee; and 150 copies (including the vita), of which two must be bound in a specified manner, must then be supplied to the College. The candidate shall not be entitled to use the degree until her dissertation shall have been published in approved form.

6. *Examinations*.—The progress and attainments of the candidate shall be tested by examinations as explained in the printed regulations.

Registration.—Before an applicant for the degree of Ph.D. can be admitted as a candidate she must submit† to the Graduate Committee in writing an account of her general preparation, stating in particular the extent of her knowledge of Latin, French, and German; stating also the subjects she wishes to offer as major and minors for the degree, and the amount and character of the work already done in these subjects. If this statement is satisfactory she will be registered as a candidate. When the Graduate Committee decides that the candidate's preparation is in any way insufficient she will be required to undertake suitable extra work.

Expenses.

For graduate students attending six or more hours a week of lectures, and for fellows and graduate scholars the tuition

* A course will not be regarded as equivalent to a seminary unless it requires about a third of the student's time.

† Using the application blank issued by the Graduate Committee.

fee is one hundred and twenty-five dollars a year, payable half yearly in advance at the beginning of each semester plus an emergency fee of one hundred dollars payable in advance at the beginning of the year charged to all students except holders of fellowships and scholarships and students taking less than eight hours a week of lectures. For other graduate students who do not wish to devote all their time to graduate work the fees are as follows, payable in advance: for one hour a week of lectures, ten dollars a semester; for two hours a week of lectures, twenty dollars a semester; for three hours a week of lectures, thirty dollars a semester; and for four or five hours a week of lectures, forty dollars a semester.* This arrangement is made especially for non-resident graduate students, but those who wish to take five hours a week of lectures or less may live in the college halls on the understanding that they must give up their rooms if needed for students who are taking the full amount of graduate work and paying the regular tuition fee. The tuition fee for the semester becomes due as soon as the student is registered in the college office. No reduction of this fee will be made on account of absence, dismissal during the currency of the semester, term, or year covered by the fee in question, or for any other reason whatsoever. Graduate students are admitted to residence or to attendance on lectures at any time during the year, and in this case a proportionate reduction is made in the charges for board and room-rent and for tuition. Every student who enters the college must register immediately at the controller's office, and must register her courses at the president's office within two weeks after entrance under penalty of exclusion from the college. Any change made later in the courses registered must be reported immediately to the president's office,

* The fees charged are reckoned on the basis of the actual hours of conference or lecture irrespective of the number of undergraduate hours to which the course is regarded as equivalent.

In counting the number of hours for which a graduate is registered the following special arrangements are made in regard to laboratory courses: payment for a one hour lecture course in a scientific department entitles the student to four hours of laboratory work in addition with no extra charge except the laboratory fee. Students registered for laboratory work only, are charged the following tuition fee: for each two and one-half hours of undergraduate laboratory course and for each five hours of graduate laboratory course the same fee as for a one hour lecture course. The laboratory fees as stated on page 37 are charged in addition to the charge for tuition.

or the courses will not be permitted to count, and a charge of one dollar will be made for each change made in the course after it has been definitely registered.

Graduate students taking courses in scientific departments (Physics, Chemistry, Geology, Biology, and Psychology) amounting to six or more hours a week of lecture courses or its equivalent in laboratory courses are charged a laboratory fee of eighteen dollars a semester with the following exceptions: if the student takes, as a regular student, courses in subjects not enumerated above amounting to six hours a week the laboratory fee is reduced to twelve dollars a semester; and if she takes, as a regular student, courses in subjects not enumerated above amounting to ten hours a week the laboratory fee is reduced to six dollars a semester.

Graduate students taking less than six hours a week of lectures, or its equivalent in laboratory work, and graduate students taking one undergraduate laboratory course only are charged a laboratory fee of ten dollars a semester for every laboratory course of four or more hours a week, and of five dollars a semester for every laboratory course of less than four hours a week.

In courses in geology each hour of field work counts as one hour of laboratory work.

Graduate students taking courses in the department of Social Economy and Social Research are charged a laboratory fee of five dollars a semester and are also required to provide themselves with two 50-trip tickets between Bryn Mawr and Philadelphia costing \$15.30. Any extra expenses for train fares or car fares or other charges in connection with the work required by the department will be defrayed by the department.

The fee for laboratory courses in applied psychology and educational psychology is \$5 a semester.

Residence.

Residence in the college buildings is optional except for holders of resident fellowships and scholarships. In each hall of residence, except Merion Hall, a special wing or corridor is reserved for graduate students, and in order to secure entire quiet no undergraduate students are permitted to engage rooms in the graduate wings. The expense of board and residence in the graduate wings of the college halls is four hundred dollars. Of this amount three hundred dollars is the charge for board, and is payable half-yearly in advance; the remainder is room-rent, and is payable yearly in advance. Every student has a separate bedroom. Room-rent includes all expenses of furnishing, service, heating and light.

Plans and descriptions of the academic buildings and of the halls of residence, Merion Hall, Radnor Hall, Denbigh Hall, Pembroke Hall West, Pembroke Hall East, and Rockefeller Hall, with a full account of the halls and tariff of rooms, are published as Part 4 of the Bryn Mawr College Calendar and may be obtained by application to the Secretary of the College. Each of the halls of residence (except Pembroke, which has a common dining-hall and kitchen for the two wings) has its

separate kitchen and dining-hall, provides accommodation for from sixty to seventy students, and is under the charge of a resident warden.

Application for rooms should be made as early as possible. The demand for graduate rooms is very great, and since every room unnecessarily reserved may prevent some other student from entering the college, a deposit of fifteen dollars is required in order that the application may be registered. In case the applicant enters the college in the year for which the room is reserved, the amount of the deposit is deducted from the first college bill. If she changes the date of her application or files formal notice of withdrawal at the secretary's office before July fifteenth of the year for which the application is made, the deposit will be refunded. If, for any reason whatever, the change or withdrawal be made later than July fifteenth, the deposit will be forfeited to the College. Students making application for a room for the second semester forfeit the deposit if they do not file formal notice of withdrawal at the secretary's office before December first of the academic year for which the room is reserved. In order to make application for a room it is necessary to sign a room-contract, which will be sent on application, and return it with the fee of fifteen dollars to the Secretary and Registrar of the College. A deposit of fifteen dollars must also be made by each student in residence in order to insure the tenure of her room for the following academic year. This sum will be forfeited if formal notice of withdrawal is not filed at the office of the Secretary and Registrar on or before May first of the current year.

Every applicant giving up later than the first of September the room or suite of rooms assigned to her for the ensuing academic year is responsible for the rent thereof for the whole year. Every applicant for a room for the second semester is responsible for the rent of the room or suite of rooms assigned to her for this semester, unless she gives formal notice of withdrawal to the Secretary and Registrar before the first of January. The charges for room-rent are not subject to remission or deduction under any circumstances, or in case of withdrawal for any cause whatever, even though during the currency of a semester, term, or year paid for in advance the student shall be dismissed. The

applicant is not entitled to dispose of the rooms thus left vacant, this right being reserved exclusively by the college.

Any student who changes her room is required to pay an extra fee of fifteen dollars.

Students are expected to provide their own rugs, curtains and towels, but in every other respect the rooms are completely furnished. Electric reading lamps, table napkins, sheets, etc., are provided by the college. No part whatever need be taken by the students in the care of their own rooms.

There are open fire-places in nearly all the studies and in many single rooms, but the rooms are sufficiently heated by steam. The air in each room is changed every ten minutes, and the temperature is regulated by a thermostat in each room. The students' personal washing may be done by any laundry recommended by the college for one dollar a dozen, or about \$16 a half-year for one dozen pieces a week.

Accommodation is provided for graduate students that wish to remain at the college during the Christmas and Easter vacations at \$1.75 a day or \$12.00 a week. At Christmas the college halls are closed, but accommodation is provided on or near the college campus. At Easter graduate students may occupy their own rooms in the halls of residence at the above rate. Graduate students remaining during the vacations in the neighbourhood of Bryn Mawr are required to take advantage of these arrangements and will be charged at the above rates for the period of the vacation unless they inform the Secretary and Registrar of the College in advance of their intention to spend the vacation elsewhere, and register their addresses in the college office.

The health of the students is under the charge of a Health Committee consisting of the President, the Dean of the College, the Director of Athletics, the Senior Warden, and the physicians of the college.

The Assistant Resident Physician of the college is in her office in the college infirmary during the hours from eight to eight-thirty and four to five-thirty every day, except Saturday and Sunday, and may be consulted by the students without charge.

Graduate students who are elected to fellowships or scholarships, or who are admitted to the college, are required to have a medical examination and to follow the health directions of the physicians of the college which will be given them after the examination; and holders of fellowships and scholarships who are reported by the physicians of the college as suffering from uncorrected eye trouble will be expected to take the necessary measures to correct it.

Every student entering the college will be vaccinated unless she can furnish satisfactory proof that she has been successfully vaccinated not more than two years previously.

The conduct of the students in all matters not purely academic, or affecting the management of the halls of residence, or the student body as a whole, is in the hands of the Students' Association for Self-Government, which was organized in 1892. All persons studying in Bryn Mawr College, whether graduates or undergraduates, are members of this association.

The college reserves the right to exclude at any time and to cancel the fellowships or scholarships held by students whose conduct or academic standing renders them undesirable members of the college community, and in such cases the fees due or which may have been paid in advance to the college will not be refunded or remitted in whole or in part.

In 1893 the Bryn Mawr Graduate Association was organized by the graduate students then in residence, its object being to further the social life of the graduate students. A room in Denbigh Hall is set apart by the college to be used as a club-room. Informal meetings are frequently held in this room, and several times during the year the Association invites the Faculty and friends of the college to larger social gatherings, which are addressed by well-known speakers.

Summary of Expenses of Graduate Students.

Tuition for the semester, payable on registration:

For one hour* a week of lectures.....	\$ 10.00
For two hours a week of lectures.....	\$ 20.00
For three hours a week of lectures.....	\$ 30.00
For four or five hours a week of lectures.....	\$ 40.00
For six or more hours a week of lectures.....	\$ 62.50

Room-rent for the academic year, payable on registration..... \$100.00

Board for the semester payable on registration..... \$150.00

Total expenses for the academic year:

Tuition fee, for six or more hours a week of lectures.....	\$125.00
Room-rent.....	\$100.00
Board.....	\$300.00
Infirmary fee.....	\$ 5.00
Emergency charge.....	\$100.00

*Total for tuition, residence, and infirmary care for the academic year .. \$630.00

Laboratory fees for the academic year.....\$10 to \$36

Students whose fees are not paid before November first in the first semester and before March first in the second semester are not permitted to continue in residence or in attendance on their classes.

THE STUDENTS' LOAN FUND OF BRYN MAWR COLLEGE was founded by the Class of 1890 for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed is distributed in the form of partial aid, and as a loan. It is as a rule applied to the assistance of those students only who have attended courses in the college for at least one year. The Fund is managed by a committee consisting of the President of the college and representatives of the Alumnae Association of Bryn Mawr College. The committee reports yearly to the Board of Trustees and to the Alumnae Association. The committee consists of the follow-

* See footnote, page 36. Graduate students are also charged a fee of \$1.50 a year for the support of the athletic grounds.

ing members: President M. Carey Thomas; Miss Martha G. Thomas, Secretary and Treasurer, Bryn Mawr College; Miss Doris Earle, Chestnut Hill, Pa.; Mrs. Alice Dudley Patterson Bensinger, 30 West Ashmead Place, South Germantown, Philadelphia; Miss Elizabeth Yarnall Maguire, 3813 Spruce Street, Philadelphia; Miss Katharine Leonard Howell, 3307 Hamilton Street, Philadelphia. Contributions may be sent to any member of the committee. Applications for loans should be sent to the Treasurer of the committee, and all applications for any given year should be made before May 1st of the preceding academic year.

Libraries.

The fact that the college is situated in the suburbs of Philadelphia enables the student to make use of all the resources of the libraries of Philadelphia, as well as those of the college proper.

The college library has been collected within the past thirty-five years, and is designed to be, as far as possible, a library for special study. There are at present on its shelves about ninety thousand bound volumes, and ten thousand dissertations and pamphlets, the collection including the classical library of the late Professor Sauppe, of Göttingen, which was presented to the college in 1894, and the Semitic library of the late Professor Amiaud, of Paris, acquired in 1892. A more detailed description of these two collections may be found on pages 51 and 75.

The sum of about seven thousand dollars is expended yearly for books under the direction of the heads of the several collegiate departments, and, in addition to many gifts of books, about twenty thousand dollars has been presented to the library during the past ten years for expenditure in special departments. Over four hundred publications and reviews in the English, Greek, French, Italian, Spanish, German, and Swedish languages, are taken by the library, as follows:

General and Miscellaneous Periodicals.

Abhandlungen der Königl. Bayerischen Akademie der Wissenschaften zu München.	*Bulletin of the Pan-American Union.
*Amherst Graduates' Quarterly.	Il Carroccio.
Asia.	Century.
Athenæum.	Contemporary Review.
Atlantic Monthly.	Cumulative Book Index.
Bookman.	Deutsche Rundschau.
Bookman (English).	Dial.
Bookseller.	Drama.
*Bryn Mawr Alumnae Quarterly.	Les Écrits Nouveaux.
Bulletin of Bibliography.	Edinburgh Review.
*Bulletin of the New York Public Library.	English Review.
	La Esfera.
	Fortnightly Review.

Forum.

La France.

Göttingische Gelehrte Anzeigen.

Harper's Monthly Magazine.

Harvard Graduates' Magazine.

Harvey's Weekly.

L'Illustration.

L'Illustrazione Italiana.

Independent.

Inter-America.

Jahresverzeichniss der an den deutschen Schulanstalten erschienenen Abhandlungen.

*Japan Society Bulletin.

*Johns Hopkins University, Circulars.

Larousse mensuel illustré.

Library Journal.

Literary Digest.

Living Age.

Mercure de France.

Mind and Body.

*Monthly Bulletin of the Carnegie Library of Pittsburgh.

Münchener allgemeine Zeitung.

Mundo Grafico.

Nachrichten von der Königlichen Gesellschaft der Wissenschaften, Göttingen.

Nation.

Nation (English).

Neue Rundschau.

New Country Life.

New Republic.

New Statesman.

New York Times Index.

Nineteenth Century.

North American Review.

Notes and Queries.

Nuevo Mundo.

Nuova Antologia.

Outlook.

*Pennsylvania Library Notes.

Preussische Jahrbücher.

Public Affairs Information Service Bulletin.

Publishers' Weekly.

Punch.

Quarterly Review.

Reader's Guide to Periodical Literature.

The Review.

Review of Reviews.

*Revista del Mundo.

Revue Critique d'Histoire et de Littérature.

Revue de Paris.

Revue des Deux Mondes.

Revue Politique et Littéraire; Revue Bleue.

Saturday Review.

Scientia.

Scribner' Magazine.

Sewanee Review.

Sitzungsberichte der Königlichen Bayerischen Akademie der Wissenschaften.

Sitzungsberichte der Königlichen Preussischen Akademie der Wissenschaften zu Berlin.

Spectator.

Der Türmer.

*University of California, Publications.

*University of Colorado, Studies.

*University of Missouri, Studies.

*University of Nebraska, Studies.

*University of Nevada, Studies.

*University of Texas, Studies.

*University of Washington, Studies.

Die Woche.

World's Work.

Newspapers.

*College News, Bryn Mawr.

Corriere della Sera.

*Home News, Bryn Mawr.

London Times.

New York Times.

Philadelphia Public Ledger.

La Prensa.

La Tempo

Art and Archæology.

American Journal of Archæology.

Art and Archæology.

Art in America.

Boletín de la Sociedad Castellana de Excursiones.

Boletín de la Sociedad Española de Excursiones.

British School at Athens, Annual.

Bulletin of the Metropolitan Museum of Art, New York.

*Bulletin of the Rhode Island School of Design.

Buletino della Commissione archaeologica comunale de Rome.

Burlington Magazine.

Denkmäler der Malerei des Altertums.

Ephemeris Archaeologica.

Gazette des Beaux Arts.

International Studio.

Jahrbuch des Deutschen Archäologischen Instituts.
 Jahreshefte des Österreichischen Archäologischen Instituts in Wien.
 Journal of Hellenic Studies.
 Journal international d'archéologie numismatique.
 Journal of the American Institute of Architects.
 Mittheilungen und Nachrichten des Deutschen Palästina Vereins.

Mittheilungen des Deutschen Archäologischen Instituts, Athenische Abteilung.
 Mittheilungen des Deutschen Archäologischen Instituts, Römische Abteilung.
 *Museum of Fine Arts Bulletin, Boston.
 Notizie degli Scavi di Antichità.
 Revue archéologique.
 Rivista d'arte.
 Zeitschrift des Deutschen Palästina Vereins.

Economics and Politics.

*Advocate of Peace.
 All Opinions of the U. S. Supreme Court.
 *American Association for International Conciliation, Publications.
 American City.
 American Economic Review.
 *American Economist.
 American Federationist.
 American Journal of International Law.
 American Municipalities.
 American Political Science Review.
 *The Americas.
 Annalist.
 Annals of the American Academy of Political and Social Science.
 Bibliographie der Sozialwissenschaften.
 *Bulletin of the University of Wisconsin, Economics and Political Science Series.
 Canadian Municipal Journal.
 Citizens Business.
 City Plan.
 City Record, Boston.
 Civic Club Bulletin.
 Columbia Law Review.
 Columbia Studies in History, Economics and Public Law.
 *Congressional Record.
 Economic Journal.
 Good Government.
 Great Britain, Quarterly List of Official Publications.
 Guaranty News.
 Handbuch der öffentlichen Rechte.
 Harvard Law Review.

Jahrbücher für Nationalökonomie und Statistik.
 Johns Hopkins University Studies in Historical and Political Science.
 Journal of Political Economy.
 Journal of the Royal Statistical Society.
 Minnesota Municipalities.
 Municipal Journal.
 Modern City.
 Municipal Research.
 National Municipal Review.
 National Tax Association Bulletin.
 New Age.
 New Witness.
 Political Science Quarterly.
 Proceedings of the Academy of Political Science.
 Proportional Representation Review.
 Publications of the American Economic Association.
 Quarterly Journal of Economics.
 Revue Bibliographique.
 Revue général de Droit international public.
 Searchlight on Congress.
 Short Ballot Bulletin.
 *Single Tax Review.
 Struggling Russia.
 Suffragist.
 *University of Pennsylvania Publications, Series in Political Economy and Public Law.
 Yale Review.
 Zeitschrift für Volkswirtschaft, Socialpolitik u. Verwaltung.

Social Economy and Social Research.

*Advance.
 American Child.
 American Child Hygiene Association, Transactions
 American Industries.

American Journal of Public Health.
 American Journal of Sociology.
 American Labor Legislation Review.
 *American Pressman.
 *Bakers' Journal.

- *Bridgeman's Magazine.
- *Broom-maker.
Bulletin of the International Labour Office.
Bulletin of the National Tuberculosis Association.
Bulletin of the National Society for Vocational Education.
- *Bulletin of the New York State Department of Labor.
Bulletin of the Taylor Society.
- *Carpenter.
Charity Organization Review.
- *Commercial Telegraphers' Journal.
Community Center.
Economic World.
- *Electrical Worker.
- *Elevator Constructor.
Engineering News-record.
Eugenics Review.
Factory.
Filing.
- *Garment Worker.
- *Granite Cutters' Journal.
Housing Betterment.
Industrial Arts Index.
Industrial Management.
Industrial News Survey.
- *Institution Quarterly.
- *International Bookbinder.
International Marine Engineering.
- *International Musician.
- *International Steam Engineer.
Iron Age.
Journal of Criminal Law.
Journal of Delinquency.
Journal of Heredity.
Journal of Industrial Hygiene.
- *Journal of the Cigar Makers' International Union.
Journal of the Outdoor Life.
- *Journeyman Barber.
Labor Bulletin of the Massachusetts Bureau of Statistics.
Labor Gazette.
- *(The) Lather.
- *Law and Labor.
- *Leatherworkers' Journal.
Life and Labor.
- *Longshoremen.
- *Machinists' Journal.
- *Metal Polishers' Journal.
- *Miners' Magazine.
- *Mixer and Server.
Nation's Business.
National Conference of Social Work Bulletin.
100%, The Efficiency Magazine.
- *Ohio State Institution Journal.
The Organizer.
- *Painter and Decorator.
- *Patternmakers' Journal.
- *Paving Cutters' Journal.
- *Plasterer.
Playground.
- *Plumbers' Journal.
Proceedings of the National Conference of Social Work.
- *Progressive Labor World.
- *Public Health, Michigan.
Publications of the American Statistical Association.
- *Quarry Workers' Journal.
- *Railway Clerk.
- *Railway Carmen's Journal.
- *Retail Clerks' International Advocate.
Seaman's Journal.
- *Shoeworkers' Journal.
Social Hygiene.
Social Hygiene Bulletin.
Social Service Review.
Survey.
System.
- *Tailor.
- *Textile Worker.
- *Tobacco Workers' Journal.
- *Trade Union News.
Transactions of the American Child Hygiene Association.
- *Typographical Journal.
- *U. S. Bureau of Immigration, Publications.
- *U. S. Bureau of Labor Statistics, Bulletin.
- *U. S. Bureau of the Census, Publications.
- *U. S. Children's Bureau, Publications.
- *University of Illinois, Studies in Social Sciences.
- *University of Minnesota, Studies in Social Sciences.
Women's Industrial News.
Women's Trade Union Review.
- *Woodcarver.

Education.

- †Berichte der Dalcroze Schule.
Education.
Educational Review.
Educational Times.
- Elementary School Journal.
English Journal.
Historical Outlook.
Journal of Educational Psychology.

Journal of Educational Research.
 Journal of Experimental Pedagogy.
 *Journal of the Association of Collegiate
 Alumnae.
 Lehrproben und Lehrgänge.
 Manual Training Magazine.
 National Education Association, Publica-
 tions.
 National Society for the Study of Educa-
 tion Yearbook.
 Pädagogische Studien.
 Pedagogical Seminary.
 Revue Internationale de l'Enseignement
 Supérieur.

Revue Universitaire.
 School and Society.
 School Journal.
 School Review.
 School Science and Mathematics.
 Supplementary Education Monographs.
 Teachers' College Contributions to Educa-
 tion.
 Teachers' College Record.
 *U. S. Bureau of Education, Bulletin.
 *University of California Publications,
 Education.
 Zeitschrift für pädagogische Psychologie.
 Zeitschrift für Schulgesundheitspflege.

History.

American Historical Association, Reports.
 American Historical Review.
 *Catholic Historical Review.
 English Historical Review.
 Historical Manuscripts Commission, Re-
 ports.
 Historische Vierteljahrschrift.
 Historische Zeitschrift.
 *Illinois State Historical Society Journal.
 Jahresberichte der Geschichtswissenschaft.

Klio, Beiträge zur alten Geschichte.
 New York Times Current History of the
 European War.
 Révolution française.
 Revue des Études Napoléoniennes.
 †Revue des Questions historiques.
 Revue historique.
 Round Table.
 Royal Historical Society, Transactions.
 Selden Society, Publications.

Philology and Literature, Classical.

†Bulletin bibliographique et pédagogique
 du Musée Belge.
 Classical Journal.
 Classical Philology.
 Classical Quarterly.
 Classical Review.
 Classical Weekly.
 Commentationes philologiae jenenses.
 Dissertationes philologicae halenses.
 Harvard Studies in Classical Philology.
 Hermes.
 Jahresbericht über die Fortschritte der
 klassischen Altertumswissenschaft.
 Journal of Roman Studies.
 †Le Musée Belge, Revue de Philologie
 classique.

Mnemosyne.
 Philologische Untersuchungen.
 Philologus.
 Quellen und Forschungen zur lateinischen
 Philologie.
 Revue de Philologie.
 Revue des Études grecques.
 Rheinisches Museum für Philologie.
 Rivista di Filologia.
 Sokrates.
 Studi Italiani di Filologia classica.
 †Studi Storici per l'Antichità classica.
 Wiener Studien, Zeitschrift für klassische
 Philologie.
 Wochenschrift für klassische Philologie.

Philology and Literature, General and Comparative.

American Journal of Philology.
 Berliner philologische Wochenschrift.
 †Eranos.
 Indogermanische Forschungen.
 Journal of English and Germanic Philol-
 ogy.
 Journal of Philology.
 Neue Jahrbücher für das klassische Alter-
 tum, Geschichte und deutsche Literatur.

Philological Society, London, Publications.
 Transactions of the American Philological
 Association.
 Zeitschrift für die österreichischen Gym-
 nasien.
 †Zeitschrift für vergleichende Sprachfor-
 schung.

Philology and Literature, Modern.

- Acta Germanica.
 Anglia.
 Anglistische Forschungen.
 †Annales Romantiques.
 Archiv für das Studium der neueren Sprachen.
 Archivio Glottologico Italiano.
 Arkiv for Nordisk Filologi.
 Beiblatt zur Anglia: Mitteilungen über englische Sprache und Litteratur.
 Beiträge zur Geschichte der deutschen Sprache und Literatur.
 Bibliographical Society of America, Publications.
 Bibliographical Society of London, Transactions.
 Bonner Studien zur englischen Philologie.
 British Society of Franciscan Studies.
 Bulletin hispanique.
 Bullettino della Società Dantesca Italiana.
 Chaucer Society Publications (both series).
 Deutsche Literaturzeitung.
 Deutsche Texte des Mittelalters.
 Dialect Notes.
 Early English Text Society, Publications (both series).
 English Leaflet.
 Englische Studien.
 Euphorion.
 Forschungen zur neueren literaturgeschichte.
 †German American Annals.
 †Germanisch-romanische Monatsschrift.
 Giornale Storico della Letteratura italiana.
 Goethe Jahrbuch.
 Henry Bradshaw Society, Publications.
 Jahrbuch der Deutschen Shakespeare Gesellschaft.
 Jahrbuch des Vereins für niederdeutsche Sprachforschung.
 Jahresbericht über die Erscheinungen auf dem Gebiete der germanischen Philologie.
 Kieler Studien zur englischen Philologie.
 Korrespondenzblatt des Vereins für niederdeutsche Sprachforschung.
 †Kritischer Jahresbericht über die Fortschritte der romanischen Philologie.
 The Library.
 Literarische Echo.
 Literarisches Centralblatt.
 Literaturblatt für germanische und romanische Philologie.
 †Le Maître phonétique.
 Malone Society, Publications.
 Materialien zur Kunde des älteren englischen Dramas.
 Modern Language Notes.
 Modern Language Review.
 Modern Language Teaching.
 Modern Philology.
 Münchener Beiträge zur romanischen und englischen Philologie.
 Palaestra.
 Poet-lore.
 Praeger deutsche Studien.
 Publications of the Modern Language Association.
 Quellen und Forschungen zur Sprach- und Kulturgeschichte der germanischen Völker.
 Rassegna Bibliografica.
 Revista de Filología Española.
 Revue Celtique.
 Revue d'Histoire Littéraire de la France.
 †Revue Germanique.
 Revue Hispanique.
 Romania.
 Romanic Review.
 Romanische Forschungen.
 Schriften der Goethe Gesellschaft.
 Scottish Text Society, Publications.
 Société des Anciens Textes Français, Publications.
 Société des Textes Français Modernes, Publications.
 Studien zur englischen Philologie.
 University of North Carolina. Studies in Philology.
 Wiener Beiträge zur englischen Philologie.
 Yale Studies in English.
 Zeitschrift für den deutschen Unterricht.
 Zeitschrift für deutsche Philologie.
 Zeitschrift für deutsches Altertum und deutsche Litteratur.
 Zeitschrift für deutsche Wortforschung.
 Zeitschrift für französische Sprache und Litteratur.
 Zeitschrift für romanische Philologie.

Philology and Literature, Semitic.

- American Journal of Semitic Languages and Literatures.
 Jewish Quarterly Review.
 Journal of the Royal Asiatic Society.
 Journal of the Society of Oriental Research.
 †Recueil de Travaux relatifs à la Philologie et à l'Archéologie égyptiennes et assyriennes.
 Zeitschrift für ägyptische Sprache und Altertumskunde.
 Zeitschrift für Assyriologie.

Philosophy and Psychology.

American Journal of Psychology.
 †Année psychologique.
 Archiv für die gesammte Psychologie.
 Archiv für Geschichte der Philosophie.
 Archiv für systematische Philosophie.
 Archives de Psychologie.
 †Archives of Psychology.
 Behavior Monographs.
 †Berichte über den Kongress für experimentelle Psychologie.
 British Journal of Psychology.
 British Journal of Psychology: Monograph Supplements.
 †Bulletin de l'Institut Psychologique.
 Fortschritte der Psychologie.
 Hibbert Journal.
 International Journal of Ethics.
 †Journal de Psychologie.
 Journal für Psychologie und Neurologie.
 Journal of Abnormal Psychology.
 †Journal of Animal Behaviour.
 Journal of Applied Psychology.
 †Journal of Experimental Psychology.
 Journal of Philosophy, Psychology and Scientific Methods.
 Journal of Religious Psychology.
 Mind.

Monist.
 Philosophical Review.
 Proceedings of the Aristotelian Society.
 Proceedings of the Society for Psychical Research.
 Psychological Bulletin.
 Psychological Clinic.
 Psychological Review.
 Psychological Review; Monograph Supplements.
 Psychological Review; Psychological Index.
 †Psychologische Arbeiten.
 †Psychologische Studien.
 Revue de Métaphysique.
 †Revue de Psychothérapie.
 Revue philosophique.
 Training School Bulletin, Vineland.
 *University of Toronto Studies, Psychology Series.
 Vierteljahrschrift für wissenschaftliche Philosophie u. Soziologie.
 Zeitschrift für angewandte Psychologie.
 Zeitschrift für Psychologie und Physiologie der Sinnesorgane: 1. Abt., Zeitschrift für Psychologie. 2. Abt., Zeitschrift für Sinnesphysiologie.

Religion.

American Friend.
 American Journal of Theology.
 Anglican Theological Review.
 Biblical World.
 †*Christian Register.
 *Christian Science Journal.
 *Christian Science Sentinel.
 Expositor.
 Expository Times.
 Harvard Theological Review.
 †Home Mission Monthly.

Journal of Biblical Literature.
 Journal of Theological Studies.
 *Publications of the American Jewish Historical Society.
 Religious Education.
 Revue biblique.
 *Spirit of Missions.
 *Union Signal.
 *Woman's Missionary Friend.
 *World Outlook.

Science, General.

American Journal of Science.
 Atti della Reale Accademia delle Scienze di Torino.
 British Association for the Advancement of Science, Reports.
 *Bulletin of the University of Wisconsin, Science Series.
 Comptes Rendus des Séances de l'Académie des Sciences.
 International Catalogue of Scientific Literature.
 *Kansas University, Science Bulletin.

Nature.
 *New York State Museum Bulletin.
 Philosophical Magazine.
 Philosophical Transactions of the Royal Society of London.
 Proceedings of the American Philosophical Society.
 Proceedings of the National Academy of Sciences.
 Proceedings of the Royal Society of London.

* Presented by the Publishers.

† Suspended publication.

‡ In Christian Association Library.

Science.
Scientific American.
Scientific American Monthly.
Scientific Monthly.

*Technology Review.
*U. S. National Museum, Publications.
*University of Missouri Studies, Science Series.

Science, Biology.

American Anthropological Association, Memoirs.
American Anthropologist.
American Journal of Anatomy.
American Journal of Physiology.
American Naturalist.
Anatomischer Anzeiger.
Archiv für Anatomie und Physiologie.
Archiv für die gesammte Physiologie.
Archiv für Entwicklungsmechanik der Organismen.
Archiv für mikroskopische Anatomie.
Bibliographia physiologica.
Biologisches Centralblatt.
Biometrika.
Botanisches Centralblatt.
Centralblatt für Physiologie.
Endocrinology.
Eugenics Laboratory Memoirs.
Genetics.
*Illinois Biological Monographs.
Jahrbücher für wissenschaftliche Botanik.
Journal de Physiologie.
Journal of Biological Chemistry.
Journal of Experimental Medicine.
Journal of Experimental Zoology.
Journal of General Physiology.

Journal of Genetics.
Journal of Morphology.
Journal of Physiology.
Journal of the Royal Microscopical Society.
*Midland Naturalist.
Quarterly Journal of Microscopical Science.
Stazione Zoologica di Napoli, Pubblicazioni.
*U. S. Public Health Service, Publications.
*University of California Publications, Physiology.
*University of California Publications, Zoology.
*University of Pennsylvania, Contributions from the Botanical Laboratories.
*University of Pennsylvania, Contributions from the Zoological Laboratories.
*University of Toronto Studies, Biological Series.
*University of Toronto Studies, Physiological Series.
*Wilson Bulletin.
Zeitschrift für wissenschaftliche Zoologie.
Zoologischer Anzeiger.

Science, Geology, and Geography.

Centralblatt für Mineralogie.
Economic Geology.
Geographical Journal.
Geological Magazine.
Geologisches Centralblatt.
*Georgia Geological Survey Bulletin.
*Illinois Geological Survey Bulletin.
Journal of Geography.
Journal of Geology.
Meteorologische Zeitschrift.
Mineralogical Magazine.

Mineralogische und petrographische Mittheilungen.
National Geographic Magazine.
Neues Jahrbuch für Mineralogie, Geologie und Paläontologie.
Philadelphia Geographical Society Bulletin.
Quarterly Journal of the Geological Society.
*U. S. Monthly Weather Review.
*University of Toronto Studies, Geological Series.

Mathematics, Chemistry, and Physics.

Acta Mathematica.
American Journal of Mathematics.
Annalen der Chemie.
Annalen der Physik.
Annales de Chimie.
Annales de Physique.
Annales scientifiques de l'Ecole Normale Supérieure.

Annali di Matematica.
Astrophysical Journal.
Beiblätter zu den Annalen der Physik.
Berichte der deutschen chemischen Gesellschaft.
Bibliotheca Mathematica.
Bollettino di Bibliografia e Storia delle Scienze Matematiche.

Bulletin de la Société Chimique de France.
 Bulletin de la Société Mathématique.
 Bulletin des Sciences mathématiques.
 Bulletin of the American Mathematical Society.
 Cambridge Tracts in Mathematics.
 Chemisches Zentralblatt.
 Giornale di Matematiche.
 Jahrbuch über die Fortschritte der Mathematik.
 Jahresbericht der deutschen Mathematiker Vereinigung.
 Journal de Chimie physique.
 Journal de Mathématiques.
 Journal de Physique.
 Journal für die reine und angewandte Mathematik.
 Journal für praktische Chemie.
 Journal of the London Chemical Society.
 Journal of Physical Chemistry.

Kolloidzeitschrift.
 Mathematische Annalen.
 Messenger of Mathematics.
 Monatshefte für Chemie.
 Physical Review.
 Physikalische Zeitschrift.
 Proceedings of the London Mathematical Society.
 Quarterly Journal of Mathematics.
 Rendiconti del Circolo Matematico di Palermo.
 Science Abstracts.
 Transactions of the American Mathematical Society.
 *U. S. Bureau of Standards Bulletin.
 Zeitschrift für anorganische Chemie.
 Zeitschrift für Elektrochemie.
 Zeitschrift für Mathematik und Physik.
 Zeitschrift für physikalische Chemie.

The library is open daily from eight A. M. to ten P. M. Books may be taken out by the students unless specially reserved for library reference use.

There are in Philadelphia the following important libraries which are available for students:

The *Library Company of Philadelphia*, which contains about 275,000 volumes, divided between the Locust Street Building and the Ridgway Branch. Its valuable collection of pamphlets is included in the number of volumes as given above. The Library is open from nine A. M. to five-thirty P. M., and is open to students for consultation freely during these hours. To take books from the building a deposit must be made or subscriptions will be received as follows: Twelve dollars for one year, six dollars for six months, four dollars for three months.

The *Mercantile Library*, which contains about 215,000 volumes. Private subscription, \$5.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains about 81,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

The *Library of the University of Pennsylvania*, which contains about 475,000 volumes and 50,000 pamphlets. The custodians

of this library have always shown great courtesy in placing rare volumes at the disposal of the college.

The *Free Library of Philadelphia*, which contains about 550,000 volumes and 265,000 pamphlets, and is at all times open to the students for consultation.

The *American Philosophical Society Library*, which contains over 67,000 volumes, admission by card.

The *Historical Society of Pennsylvania Library*, which contains over 140,000 bound volumes, and 300,000 pamphlets, is for reference only. Every courtesy is extended to members of the college.

Sanskrit and Comparative Philology.

The instruction in this department is under the direction of a non-resident lecturer in Comparative Philology and Sanskrit.

GRADUATE COURSES.

The following graduate courses are offered in each year:

Lectures on Comparative Philology and Philological Seminary.

Two hours a week throughout the year.

Students entering this course are expected to be familiar with German and French. A short preliminary course in Sanskrit is also of great aid to the student. The lectures on comparative philology treat of the connection of the Greek and Latin languages with the related languages of the Indo-European group, first, phonetically, secondly, from the point of view of grammatical forms, and lastly, from the point of view of syntax. In the first part of the course which covers what during the last few years has been the field of the most active research the student is introduced to the latest theories and discoveries in Aryan phonetics, and is expected to read and criticise the articles appearing from time to time in the philological journals, and to prepare reports on these articles. The same method is pursued during the investigation of the history of forms; and in the third part of the course the student begins the study of comparative syntax by a close comparison of the use of cases and verbal forms in Sanskrit, Greek, and Latin.

Elementary Sanskrit.

Two hours a week throughout the year.

Whitney's *Grammar* is used, and the classical selections from Lanman's *Reader* are read. Lectures are given on the phonology and morphology of Sanskrit.

The courses in Comparative Philology and in Elementary Sanskrit will not, as a rule, be given in the same year.

Second Year Sanskrit.

One or two hours a week throughout the year.

The Vedic selections in Lanman's *Reader* are read, with some additional hymns from the *Rigveda*. Selections from the classical literature are read at sight. Exercises in etymology are given to supplement the lectures on the phonology.

Advanced Sanskrit.

Two hours a week throughout the year.

Selected texts are read: the *Bhagavad-Gītā*; Kālidāsa's *Çakuntalā*, Acts I and II, with a careful study of the Prākṛit; selected hymns of the *Atharvaveda*. During the second semester the course is conducted as a seminary, with use of the native commentaries.

Greek.

The instruction in this department is under the direction of Dr. Henry Nevill Sanders, Professor of Greek; Dr. Wilmer Cave Wright, Associate Professor of Greek; Dr. George A. Barton, Professor of Biblical Literature and Semitic Languages, and Miss Abby Kirk, Reader in Elementary Greek.

Exceptional facilities for the study of all departments of classical philology are offered by the large classical library owned by the College. The greater part of this library is formed by the well-known collection of the late Professor Hermann Sauppe of Göttingen, which was acquired in 1894. This has been supplemented by purchases made by the college library, so that the classical library now numbers some seven thousand volumes, including complete sets of most of the important journals, and about seven thousand dissertations and monographs.

GRADUATE COURSES.

The graduate seminars in Greek are varied from year to year in two series, Attic Tragedy, Orators, and Historians, and the Homeric Question, Plato, and Aristophanes, in order that they may be pursued by a student for consecutive years. Students electing Greek as a major subject for the degree of Doctor of Philosophy must offer not less than two seminars and the journal club for two years and if Greek be also elected as the associated minor the candidate must offer two seminars and one journal club for three years. A list of approved associated minors and independent minors is given in the Regulations of the Academic Council. The post-major courses also are open to graduate students. A large part of the work expected of graduate students consists of courses of reading pursued under the direction of the department, and reports of this reading are from time to time required of the students. A reading knowledge of French and German is required. The course in Comparative Philology is recommended to graduate students of Greek. For graduate courses in Classical Archaeology, which may be offered as an associated or independent minor by students taking Greek as a major for the degree of Doctor of Philosophy, see page 109.

No undergraduates are admitted to graduate courses.

Dr. Sanders conducts in each year the following graduate seminary:

Greek Seminary.

Three hours a week throughout the year.

In 1919-20 Greek Historians are the main subject of the seminary. Thucydides is studied in detail and reports are made on data of history contained in Greek literature

in general. Lectures are given by the instructor on subjects connected with Greek historiography, such as the composition of Thucydides's history, the syntax and style of Thucydides, the history of early prose, Greek historical inscriptions.

In 1920-21 Attic Tragedy will be the subject of the seminary. The work of the seminary in textual criticism will be devoted to Sophocles. Members of the seminary report on assigned subjects and give critical summaries of current classical literature.

In 1921-22 Greek Orators will be studied in the seminary. The work consists of the reading of large portions of all the orators and the critical interpretation of a selected part of each. Lectures are given on legal antiquities, the syntax, and the style of the various authors, in conjunction with which Dionysius of Halicarnassus and the Greek rhetoricians are studied. The later rhetoricians are treated and their criticism of antiquity investigated. Students are expected to provide themselves with the Teubner text editions of Antiphon, Andocides, Lysias, Isocrates, Isæus, Æschines, Hypereides, and Demosthenes. The classical library is well equipped with works on the orators.

Dr. W. C. Wright conducts in each year the following graduate seminary:

Greek Seminary.

Two hours a week throughout the year.

In 1919-20 Aristophanes is the subject of the seminary. The aim of the seminary is to make the students familiar with the more important Aristophanic literature up to the present day. Portions of the text are interpreted by the class and reports on assigned topics, literary, historical, and archaeological, connected with the plays are expected from all the members. All the comedies of Aristophanes are read in the course of the year; lectures are given by the instructor on the metres and syntax of Aristophanes, on the dramatic structure of the plays and on the history of Attic comedy. Part of the work consists of analyses of dissertations on Aristophanes which are presented by members of the class. Every member of the class should provide herself in advance with a complete text of Aristophanes. The Clarendon Press (Oxford) edition is recommended.

In 1920-21 Plato will be the subject of the seminary. The work is mainly literary and critical. Lectures on the style, philosophy, and chronology of the dialogues are given by the instructor; a detailed interpretation of a portion of Plato, and reports on topics set for discussion are given by the class. The students are expected to read the *Republic*, *Theatetus*, *Parmenides*, and *Sophist* and discuss certain problems arising from these dialogues. The aim of the course is to lay a foundation for independent work by familiarizing the students with the achievements of scholarship and the general field of Platonic literature up to the present day. Every member of the seminary should provide herself in advance with a complete text of Plato. The Clarendon Press (Oxford) edition is recommended.

In 1921-22 the Homeric Question will be the subject of the seminary; the work consists of a review of the discussions of the Homeric poems since the publication of Wolf's *Prolegomena*. The various tests that have been applied to the poems by archaeologists, linguists, historians of myths, and æsthetic critics are taken up and criticized in detail.

Dr. Sanders and Dr. W. C. Wright together conduct the Greek journal club:

Greek Journal Club.

One and a half hours once a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent articles and books on subjects connected with the Greek classics.

POST-MAJOR COURSES.

Dr. Sanders offers in 1919-20 the following post-major courses, open to graduate students:

- Minor Orations of the Attic Orators. *Two hours a week during the first semester.*
 Sophocles, *Oedipus Coloneus* *One hour a week during the first semester.*
 Æschylus, *Agamemnon*. *Two hours a week during the second semester.*
 Greek Prose Composition and the Evolution of Style.
One hour a week during the second semester.

Dr. Sanders offers in 1920-21 the following post-major courses, open to graduate students:

- Sophocles, *Trachiniæ* and Euripides, *Heracles*.
Two hours a week during the first semester.
 Herodotus. *One hour a week during the first semester.*
 Greek Rhetoricians and Greek Prose Composition.
One hour a week during the second semester.
 Bacchylides. *One hour a week during the second semester.*
 Euripides, *Bacchæ*. *One hour a week during the second semester.*

Dr. Sanders offers in 1921-22 the following post-major courses, open to graduate students:

- Æschylus, *Oresteia*. *Two hours a week during the first semester.*
 Fourth Century Critics. *One hour a week during the first semester.*
 Pindar. *Two hours a week during the second semester.*
 Sophocles, *Electra* or Euripides, *Electra*.
One hour a week during the second semester.

Dr. W. C. Wright offers in 1919-20 the following post-major courses, open to graduate students:

- Melic Poets. *Two hours a week during the first semester.*
 Plato, *Republic*. *Two hours a week during the second semester.*

Dr. W. C. Wright offers in 1920-21 the following post-major courses, open to graduate students:

- Theocritus. *Two hours a week during the first semester.*
 Æschylus, *Septem* or Lucian. *Two hours a week during the second semester.*

Dr. W. C. Wright offers in 1921-22 the following post-major courses, open to graduate students:

- Palatine Anthology. *Two hours a week during the first semester.*
 Sophocles, *Ajax*. *Two hours a week during the second semester.*

FREE ELECTIVE COURSES.

Dr. W. C. Wright offers in each year the following free elective courses:

History of Greek Literature.

Two hours a week throughout the year.

Greek Religion and Greek Myths. *Two hours a week during the first semester.*

This course is supplementary to Greek and English literature and to Oriental and Classical Archæology and treats of the development of Greek religion, the attributes of the Olympian Gods, such as Zeus and Apollo, their ritual, and the influence on literature of Greek myths.

Literary Geography of Greece and Asia Minor,

Two hours a week during the second semester.

This course traces not only the literary legends of famous sites such as Athens, Thebes, Troy and Constantinople, but also their political history.

Latin.

The instruction in this department is under the direction of Dr. Arthur Leslie Wheeler, Professor of Latin, Dr. Horace Wetherill Wright, Associate in Latin, and Dr. Mary Hamilton Swindler, Instructor in Latin and Archæology.

GRADUATE COURSES.

The graduate work in Latin is conducted according to the seminary method, and is intended not only to broaden the student's knowledge, but also to teach methods of work. The graduate courses in Latin are varied from year to year in three series, Roman Lyric Poetry, Elegy, and Comedy, and Roman Religion, Latin Epigraphy, and Roman Epic Poetry. Students electing Latin as a major subject for the degree of Doctor of Philosophy must offer not less than two seminaries and the journal club for two years and if Latin be also elected as the associated minor the candidate must offer two seminaries and the journal club for three years. A list of approved associated and independent minors is given in the Regulations of the Academic Council. It is desirable that all students who intend to do advanced work in Latin should have some knowledge of Greek. A reading knowledge of French and German is necessary.

No undergraduates are admitted to graduate courses.

Dr. Wheeler conducts in each year the following graduate seminary:

Latin Seminary.

Three hours a week throughout the year.

In 1919-20 Roman Lyric in the Period of the Republic is the subject of the seminary. After a rapid survey of the fragmentary lyric remains of the predecessors and contemporaries of Catullus, the poems of Catullus himself are studied in detail. Students should have *Catulli carmina* (Oxford text, 1904), edited by Robinson Ellis, and either the same scholar's *Commentary on Catullus*, Oxford, Clarendon Press, 1889 (second edition), or G. Friedrich's *Catulli Veronensis liber*, Lipsic and Berlin, 1908 (Teubner).

In 1920-21 Roman Elegy as represented by Tibullus, Propertius, and Ovid will be the subject of the seminary. In addition to a careful study of selected poems an effort is made to trace the history of elegy among the Romans. The various topics connected with the subject are treated in detail as far as time permits, and the students are encouraged to familiarize themselves with the best literature in editions, periodicals, and dissertations. The texts recommended are the Oxford Clarendon Press editions of Catullus and Tibullus, edited by Ellis and Postgate, and the Leipsic (Teubner) text of Propertius, edited by C. Hosius, 1911. The best commentaries are Kirby Smith's *The Elegies of Tibullus*, New York, 1913 (American Book Co.), and M. Rothstein's *Die Elegien des Sextus Propertius*, Berlin, 1898 (Weidmann). For Catullus see Roman Lyric.

In 1921-22 Latin Comedy will be the subject of the seminary. All the plays of Plautus and Terence are read by the students; single plays form the basis of special work on the language, text, metres, etc. Students should provide themselves with the text edition of Plautus, edited by Goetz and Schoell, Leipsic, Teubner, 1892-1904, or that of W. M. Lindsay, Oxford, 1903-04, and with Dziatzko's text of Terence, Leipsic, Tauchnitz, 1884. The plays of Plautus, annotated by Brix, Leipsic, Teubner, 1901-12, and by Lorenz, Berlin, Weidmann, 1876-86, and the plays of Terence, annotated by Dziatzko (revised by Hauler), 1898 and 1913 (Teubner), and by Spengel, 1879 and 1905 (Weidmann), are also recommended. *P. Terenti Afri Commoedæ*, edited by S. G. Ashmore, Oxford University Press, New York, 1908, is a convenient commentary.

Dr. H. W. Wright conducts in each year the following graduate seminary:

Latin Seminary.

Two hours a week throughout the year.

In 1919-20 Roman Religion from prehistoric times through the reign of Augustus is studied. After introductory lectures with assigned reading, which survey the development of Roman religious life and thought, the students are required to present frequent reports on individual cults and priesthoods, basing their work on the original sources and the investigations of leading modern scholars in the field.

In 1920-21 the work of the seminary during the first semester will be Latin Epigraphy. The major portion of the course will be devoted to a study of the *Corpus Inscriptionum*. The questions assigned for investigation will deal mainly with Roman political institutions, public and private life, and religion.

In the second semester the Topography of Rome will be studied. There will be illustrated lectures, and the students will present frequent reports based on a detailed investigation of the discoveries affecting individual sites. Special emphasis will be laid upon sites prominent in the religious history of the city.

In 1921-22 the work will consist of a study of Roman Epic.

Dr. Wheeler, Dr. H. W. Wright and Dr. Swindler together conduct the Latin journal club.

Latin Journal Club.

One and a half hours once a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent articles and books on subjects connected with the Latin classics.

POST-MAJOR COURSES.

Dr. Wheeler offers in 1919-20 and again in 1921-22 the following post-major course, open to graduate students:

Roman Satire.

Two hours a week throughout the year.

The subject is treated historically in order to give an outline of the origin and development of Satire. The class reads selections from Horace, Persius, Seneca, Petronius, and Juvenal, together with some of the fragments of Ennius, Lucilius, and Varro. The read-

ings are supplemented by occasional lectures. Each student is required to prepare papers and reports on assigned topics in each semester.

Dr. Wheeler offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Roman Elegy.

Two hours a week throughout the year.

An effort is made to trace historically the development of this branch of poetry among the Romans. Selections from Catullus, Tibullus, Propertius, and Ovid are read. The readings are supplemented by occasional lectures. Special attention is devoted to the structure and reading of the elegiac distich and to the characteristics of Roman poetic diction. Each student is required to prepare papers and reports on assigned topics in each semester.

Dr. H. W. Wright offers in 1919-20 and again in 1921-22 the following post-major courses, open to graduate students:

Lucretius and Catullus.

Three hours a week during the first semester.

Selections from the *De Rerum Natura* and from the lyrics of Catullus are read.

Latin Prose Composition.

Two hours a week throughout the year.

Cicero and Cæsar.

Three hours a week during the second semester.

An effort is made by means of lectures, discussions, and extensive reading to gain an intimate acquaintance with the literary work and the political careers of Cicero and Cæsar.

Dr. H. W. Wright offers in 1920-21 and again in 1922-23 the following post-major courses, open to graduate students:

The Life and Works of Vergil.

Three hours a week during the first semester.

The larger part of the *Aeneid*, two books of the *Georgics* and some of the minor poems are read and discussed.

Latin Prose Composition.

Two hours a week throughout the year.

Roman Prose of the Empire.

Three hours a week during the second semester.

Selections from Velleius, Seneca, Quintilian, Tacitus, Suetonius, Apuleius, and Minucius Felix are read.

MODERN LANGUAGES.

Professors and instructors: Dr. M. Carey Thomas, Dr. Fonger DeHaan, Miss Lucy Martin Donnelly, Dr. Regina Katharine Crandall, Dr. Eunice Morgan Schenck, Dr. Samuel Claggett Chew, Dr. Jean Baptiste Beck, Dr. Howard James Savage, Mr. Samuel Arthur King, Dr. Agnes Rutherford Riddell, Miss Marcelle Pardé, Dr. Eduard Prokosch, Dr. Mary Agnes Quimby, Miss Carolina Marcial Dorado, Dr. Esther Parker Ellinger, Miss Mary Sinclair Crawford, Miss Helen Walkley Irvin, Miss Gertrude Marshall Geer, Miss Dorothy McSparran, and Miss Agnes Murray Macfadzean.

English.

The instruction in this department is under the direction of Dr. M. Carey Thomas, Professor of English, Miss Lucy Martin Donnelly, Professor of English, Dr. Regina Katharine Crandall, Professor of English Composition, Dr. Samuel Claggett Chew, Associate Professor of English Literature, Dr. Howard James Savage, Associate Professor of Rhetoric and Director of the Work in English Composition, Mr. Samuel Arthur King, Non-resident Lecturer in English Diction, Dr. Eduard Prokosch, Lecturer in German and Anglo-Saxon, and Dr. Esther Parker Ellinger, Miss Helen Walkley Irvin, Miss Gertrude Marshall Geer, and Miss Dorothy McSparran, Instructors in English, and Miss Agnes Murray Macfadzean, Reader in English.

GRADUATE COURSES.

There are offered each year graduate seminaries and courses in English literature and in English language, and these seminaries and courses are varied so as to enable candidates for the degree of Doctor of Philosophy to pursue graduate work for three or more successive years. The graduate instruction in English literature includes the direction of private reading and the assignment of topics for investigation. The graduate courses in literature presuppose at least as much knowledge as is obtained in the two years' course of undergraduate lectures on English literature and in one of the literature courses of the English major; and the graduate courses in Anglo-Saxon presuppose as much knowledge of Anglo-Saxon as is obtained in the language course in the English major. All students offering English as a subject for the degree of Doctor of Philosophy must have taken at least the equivalent of the composition in the required English course.

Students who elect English literature as their major subject in their examination for the degree of Doctor of Philosophy must offer English philology as the associated minor and those who offer English philology as a major subject must offer English literature as the associated minor. In the major together with the associated minor the student must offer two seminaries and a journal club for three years. A list of approved independent minors is given in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Miss Donnelly conducts in alternate years the following graduate seminary:

Seminary in English Literature.

Two hours a week throughout the year.

In 1920-21 the Romantic Poets will be the subject of the seminary. Special attention will be paid to Shelley and Byron and to the phases of Romanticism shown in their work. Their relations to their contemporaries in England and on the Continent will be discussed.

In 1922-23 Donne and Milton will be the subject of the seminary. They will be studied in their relation to such contemporary influences as Platonism and the Church and Puritanism and in especial to the sources and development of poetical style in the seventeenth century.

In 1924-25 Eighteenth Century Prose will be the subject of the seminary. Swift, Addison, and Steele will be studied. Attention will be given to their relations to both contemporary politics and literature.

Miss Donnelly will offer in each year special assignments of reading and reports for foreign students who have come intending to study American literature and to prepare for examinations in it abroad.

Dr. Chew conducts in each year the following graduate seminary:

Seminary in English Literature.

Three hours a week throughout the year.

In 1919-20 the attention of the seminary is divided equally between the plays of Massinger and Webster, and certain aspects of literature during the latter half of the Victorian Period.

In 1920-21 the plays of Jonson, Middleton, Dekker, and Thomas Heywood will be studied.

In 1921-22 the subject of the seminary will be the poetry and prose of Wordsworth and the novel of the Romantic Period.

Dr. Crandall conducts in each year the following graduate seminary:

Seminary in English Composition.

Two hours a week throughout the year.

The chief business of the seminary is the discussion and criticism of the students' own writing. Its aim is to make familiar and apply the principles and standards of criticism that have developed with the development of literature; the subject of study in each year is adapted to the purpose and interests of the students.

In 1919-20 the subject of the seminary is historical writing and includes a study of the manner of Gibbon, J. R. Green, Motley, Parkman, and other historians.

In 1920-21 modern fiction, English, French, and Russian, will be the subject of the seminary.

In 1921-22 the seminary will study the manner of writers of biography and memoirs, among others Boswell, Lord Morley, and Henry Adams.

The following graduate seminary is offered in each year:

Seminary in Middle English.

Three hours a week throughout the year.

In 1920-21 the seminary will study *The Vision of Piers the Plowman* and the works of Chaucer. Attention is devoted not so much to the critical reading of the texts themselves as to the examination of the questions of authorship and chronology which have recently been raised. These poems are also discussed in their relation to the other literature of the fourteenth century. Special subjects for individual investigation are assigned to the members of the seminary.

In 1921-22 the Beginnings of English Drama will be the subject of the seminary. After tracing the emergence of plays in the vernacular from the liturgical drama, the evolution of the leading English mystery cycles is studied. In considering the morality plays their connection with mediæval allegories, debates, and didactic treatises is specially examined. The lectures given by the instructor are designed to afford a general survey.

of the drama (both religious and secular) in England to the accession of Queen Elizabeth. Critical reports on assigned topics are required from the students.

In 1922-23 Middle English Romances will be the subject of the seminary. All the romances represented in Middle English are read, and the relation of these English versions to their Latin and Old French originals are discussed. The romance cycles are taken up in the following order: Troy story, Alexander saga, Arthurian cycle, romances of Germanic origin, Charlemagne cycle. Special investigations of problems relating to the romances are undertaken from time to time by the members of the seminary.

In 1919-20 and again in 1921-22 the following graduate courses are offered:

Beowulf.

Two hours a week throughout the year.

This course begins with a careful textual study of the Beowulf. After discussing the problems of editing, a general survey of Beowulf criticism is presented including theories as to the composition of the poem, and an inquiry into its historical and mythological elements. In this connection a study is also made of the other pieces of Anglo-Saxon heathen poetry. This course is open to graduate students who have already taken the course in Anglo-Saxon grammar and reading of Anglo-Saxon texts, or its equivalent.

English Historical Grammar.

Two hours a week throughout the year.

In this course the development of the English Language is traced from the earliest times. After an outline has been given of the history and external relations of English, the change and decay of inflections, the use of prepositions and the more important points in historical syntax are discussed. The course presupposes a knowledge of Anglo-Saxon and Middle English. The students examine various documents of the different periods to discover evidence of the operation of linguistic principles. This course is given by Dr. Prokcsch in 1919-20.

In 1920-21 and again in 1922-23 the following graduate course is offered:

Cynewulf and Cædmon.

Two hours a week throughout the year.

Several of the poems traditionally ascribed to these authors are critically studied. Lectures are given with a view to furnishing a thorough introduction to Anglo-Saxon Christian poetry and the literary problems connected with it. This course is open to graduate students who have already taken the course in Anglo-Saxon grammar and reading of Anglo-Saxon texts or its equivalent.

Dr. Savage offers in 1921-22 the following graduate course:

Technical and Advanced Criticism. *Two hours a week during the first semester.*

In this course attention will be given to bibliography, the tabulating of critical data, the planning and writing of papers, reports, and dissertations, critical usage, and other matters. Materials collected for other courses in research are available for use in this work.

Miss Donnelly, Dr. Chew, Dr. Crandall, Dr. Savage, and Dr. Prokosch together conduct the English journal club.

English Journal Club.

One and a half hours a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent review and critical articles.

The following advanced undergraduate courses may be attended by graduate students:

Miss Donnelly offers in 1919-20 and again in 1921-22 the following course:

English Romantic Poets.

Five hours a week during the second semester.

The poets studied in this course are Wordsworth, Coleridge, and Shelley in the first semester and in the second, Byron, and Keats. Their works are discussed in class in connection with questions of poetics and literary theory and reports are required from students attending the course.

Dr. Chew offers in each year the following courses:

English Critics of the Nineteenth Century.

Five hours a week during the first semester.

Carlyle, Ruskin, Huxley, Arnold, Pater and Morley, and, if time allows, two or three other writers, are studied with regard to their theories of criticism and their influence upon the thought of their time. A report is required from each student attending this course.

The Elizabethan and Jacobean Drama.

Five hours a week during the first semester.

A large number of plays by the dramatists from Lyly and Marlowe to Ford and Shirley are read. The lectures deal in part with aspects of contemporary life as reflected in the drama. A report is required from each student attending this course.

Dr. Chew offers in 1919-20 and again in 1921-22 the following course:

English Literature from Dryden to Johnson.

Five hours a week during the second semester.

The poets from Butler to Thomson; the philosophers from Hobbes to Hume; the novel from Defoe to Fielding; the beginning of English historical writing; and the essayists are the chief subjects studied in this course.

Dr. Chew offers in 1920-21 and again in 1922-23 the following course:

English Poetry, 1850-1914.

Five hours a week during the second semester.

A rapid review of the progress of poetry during the first half of the nineteenth century is followed by more detailed study of the poets of the later period.

Dr. Prokosch offers in 1920-21 and again in 1922-23 the following course:

Anglo-Saxon Prose and Beowulf.

Five hours a week during the first semester.

The first half of the course is devoted to an outline of Anglo-Saxon grammar as presented in Siever's *Old English Grammar* (Cook's translation) and to the reading of the prose selections in Bright's *Anglo-Saxon Reader*. After reading one or two of the shorter Anglo-Saxon poems, the *Beowulf* is taken up (Wyatt and Chambers' text) and the first two-thirds of the poem is read with the class. This course was given by Dr. Prokosch in 1919-20 in the second semester.

In 1919-20 and again in 1921-22 the following courses are offered:

Middle English Poetry, Chaucer. *Five hours a week during the second semester.*

The course begins with an outline of Middle English grammar sufficient to enable the students to read ordinary texts intelligently. Lectures are given on the development of the language and literature during this period. In the course on Chaucer the best of the *Canterbury Tales* are studied, also the *Legend of Good Women*, *The House of Fame*, and portions of *Troilus and Criseyde*. The lectures discuss Chaucer's sources and literary art, and his relation to the English, French, and Italian literature of his time.

Middle English Romances. *Five hours a week during the first semester.*

Selected romances in Middle English are read by the members of the class. The lectures deal with the development of Romance literature in Europe with special reference to the romances of the Arthurian cycle, and the discussion includes a review of the development of mediæval themes in later periods.

In 1920-21 and again in 1922-23 the following course is offered:

Shakespeare. *Five hours a week during the second semester.*

A careful study is made of a number of Shakespeare's plays, selected with a view to illustrating his earlier and later work. The plays usually chosen are: *King Lear*, *Henry IV*, Part I, *Hamlet*, *Romeo and Juliet*, and *The Tempest*. Some of the more general problems connected with these plays are discussed in introductory lectures and various topics are taken up, such as the principles of tragedy and comedy, the use of allegory and the development of Shakesperian criticism.

Dr. Crandall offers in each year the following elective course:

Argumentation. *Two hours a week throughout the year.*

The writing of arguments, the study of the form with reference to other types of writing, and other problems connected with argumentation, formal and informal, make up the work of the course. If possible, some attention will be paid to oral composition.

Dr. Crandall offers in 1919-20 and again in 1921-22 the following elective courses:

Daily Themes. *Two hours a week during the first semester.*

Short papers on subjects chosen by the students themselves are required from each student and discussed in the class.

Criticism. *Two hours a week throughout the year.*

The course includes a study of the principles of criticism and the writing of critical expositions, the essay, and kindred forms.

Dr. Crandall offers in 1920-21 and again in 1922-23 the following elective courses:

The Short Story. *Two hours a week throughout the year.*

The course deals with various forms of narrative, more especially the short story, and includes a study of the work of representative authors, both English and French.

Versification. *Two hours a week throughout the year.*

The course is not historical but theoretical and practical. Students are required to write short exercises in verse every week.

Dr. Savage offers in 1919-20 the following course:

The Technique of the Drama.

Two hours a week throughout the year.

This course is open only to those students who can assure the instructor that they can pursue the work with profit. It deals with the theory of the drama, the building of scenarios, adaptation, and the writing of original longer and shorter plays; and with the observation of dramatic technique in plays read and seen.

Dr. Savage offers in 1920-21 the following course:

English Fiction in the Nineteenth Century.

Five hours a week during the second semester.

A study of the principal types of English prose fiction during the last century, the short story and the novel, with attention to their origins, development, and technique.

Dr. Savage offers in 1921-22 the following course:

Materials and Methods of Teaching Composition.

Two hours a week during the second semester.

This course is intended for graduate students and for undergraduates who expect to teach English; its aim is to present some of the problems of collegiate instruction in composition: the planning and supervision of courses, reports on departments in various colleges, and allied problems. Practice in writing is gained through reports of varying character and length.

Mr. King offers in each year the following course in English Diction for graduate students:

General Course in Articulation and Voice Production.

One half hour a week throughout the year.

The object of this course is to train speakers in accurate and distinct articulation and to eliminate the faults of bad production. Speech is resolved into its phonetic elements which are made the basis of practical exercises so arranged as to be progressive in their difficulties.

Mr. King offers in 1919-20 and again in 1921-22 the following free elective course in English Diction:

Reading of Shakespeare.

One hour a week throughout the year.

This course is open only to those students who have taken the required course in English diction. A special study is made of the principles of correct delivery of blank verse. The needs of those students who intend to teach English literature, and desire to read Shakespeare to their pupils, are given special attention.

Mr. King offers in 1920-21 and again in 1922-23 the following free elective course in English Diction:

General Reading of Prose Authors.

One hour a week throughout the year.

This course is open only to those students who have attended the required course in English diction or who have done equivalent work.

ROMANCE LANGUAGES.

French.

The instruction in this department is under the direction of Dr. Eunice Morgan Schenck, Associate Professor of French; Dr. Jean Baptiste Beck, Associate Professor of Mediæval

French Literature; Miss Marcelle Pardé, Associate in French, and Miss Mary Sinclair Crawford, Instructor in French.

GRADUATE COURSES.

Ten hours a week of seminary work and graduate lectures are offered each year to graduate students of French, accompanied by the direction of private reading and original research. The courses covering the field of Old and Modern French Language and Literature are arranged to form a triennial cycle. The work of each year centres around one main topic to be studied as a part of the history of French literature in its various relations to general literature and civilization of the period concerned. Students may enter a seminary in any year and pursue it during three or more consecutive years. The members of the seminaries report on subjects assigned them at the beginning of each semester.

Students who choose French literature as their major subject in their examination for the degree of Doctor of Philosophy must offer French philology as the associated minor and students who offer French philology as a major subject must offer French literature as the associated minor. A list of approved independent minors will be found in the Regulations of the Academic Council. In the major together with the associated minor the student must offer two seminaries and a journal club for three years.

Dr. Schenck conducts in each year the following graduate seminary:

Seminary in Modern French Literature. *Two hours a week throughout the year.*

In 1919-20 the subject of the seminary is Romanticism and Realism. The origins of romanticism are examined in the rise of "*le cosmopolitisme littéraire*," in eighteenth century French literature and especially in the works of Rousseau and Madame de Staël.

A parallel study of the theories underlying literary and historical realism is made in connection with Taine, Renan, Zola, and Maupassant. The seminary meets in 1919-20, three hours a week throughout the year.

In 1920-21 the subject of the seminary will be Phases of Romanticism in the Nineteenth Century as illustrated by Hugo, Gautier, and Flaubert. A special study is made of the origin and development of the theory of *L'art pour l'art*.

In 1921-22 the subject of the seminary will be Nineteenth Century Drama. After a rapid survey of the theatre of the eighteenth century a careful study is made of the drama of Hugo, Dumas père, Vigny, and Musset, and the extent of the influence of Shakespeare on French romantic drama. The rise and development of realistic comedy are studied and the course closes with an examination of Post-Realism and Symbolism in contemporary French drama.

Dr. Beck conducts in 1919-20 the following graduate seminary:

Seminary in Mediæval French Literature.

Two hours a week throughout the year.

The work expected of graduate students in the seminary in Mediæval French Literature consists of a palæographical analysis of the original manuscripts, a cursory inter-

pretation of the texts, a review of the opinions expressed by the respective specialists on each subject and a critical discussion of the comparative value of the work in question. These reports are intended to train graduate students in literary research. The courses in other Romance Languages (Italian and Spanish) and also those in Middle English are recommended to students in Mediæval French literature. During her first year of work in this seminary each student is required to take also the Seminary in Romance Philology, unless she has already taken a corresponding course.

In 1919-20 the subject of the seminary in Mediæval French Literature is the Origin of French Literature from the earliest documents to the twelfth century. The literary products of this period are read and interpreted from photographic reproductions of the original manuscripts. The main emphasis is laid upon the development of mediæval literature from the previous Middle Latin literature, to show the interrelations between literature written in the various languages and dialects, both Romanic and Germanic, and the religious literature, and to illustrate the international character of literature during that period. The origin of mediæval lyric poetry is derived from the Tropes and Sequences of St. Martial de Limoges and of St. Gall, the Epic Poetry from the Lives of the Saints and the dramatic literature from the Liturgy of the Church. The absolute unity of mediæval art in the conception of the authors and artists of the Romanesque and Gothic periods will be illustrated by the mutual connections between the various literary genres and the different branches of fine arts, such as architecture, sculpture, painting, and music.

In 1920-21 the subject of the seminary will be Rabelais' *Gargantua et Pantagruel*.

In 1921-22 the Evolution of Dramatic and Epic Literature from the twelfth to the sixteenth century will be studied in the seminary: the development of actual stage drama from the primæval liturgical ceremonies, these and the epic parts of Scripture in relation to the Mystères; the dramatic elements contained in mediæval lyrics, such as the Aubes, Pastourelles, Jeux-Partis and in the dialogue forms of certain types, such as the Chansons à danse; the primitive Opera comique, a combination of lyrics and epics: Aucassin et Nicolette, Robin et Marion, le Jeu de St. Nicolas, etc. The work of the second semester is devoted entirely to a systematic study of the origin and development of Old French epics in the light of Bédier's work.

Dr. Beck offers in 1919-20 the following graduate courses:

Old French Philology.

Three hours a week throughout the year.

Historical Grammar of Old French, followed by Critical Reading of Old French texts, in their chronological order, chosen from the most representative genres and dialects, including Anglo-Norman. Students of Old French Philology should be provided with E. Monaci's *Facsimili di Documenti per la storia delle lingue e delle letterature Romanze*, Nyrop, *Grammaire historique de la Langue Française*, Vol. 1, and K. Bartsch, *Chrestomathie de l'Ancien Français*. This course is equivalent to a full seminary and counts as such.

Introduction into the Study of Romance Philology.

One hour a week throughout the year.

Derivation of the Romance Languages, chiefly Old French, Old Italian and Old Spanish.

This course is planned to meet the needs of all students of Romance Languages whether they are specializing in French, Italian or Spanish. It will require two hours of work a week in addition to the hour of lecture. Graduate students taking the graduate course in Old French Philology or the graduate language courses in Italian and Spanish who have not had this course or its equivalent are strongly advised to take it at the same time, and will be given an allowance of three hours in the work required to make these courses equivalent to seminars. The two combined courses will be equivalent to a full seminary and will count as such.

In 1920-21 and again in 1922-23 the following graduate course intended especially for teachers of French is offered:

The Foundations of French Grammar.

One hour a week throughout the year.

This course is intended to train teachers to be able to give a rational explanation of the various functions of parts of speech and to dispense with mechanical grammatical rules.

Dr. Beck offers in 1919-20 and there will be offered in 1921-22 one of the following graduate courses:

Old Provençal.

One hour a week during the first semester

Historical Grammar of the Old Provençal language.

Old Provençal Literature.

One hour a week during the second semester.

The evolution from the Tropes and Sequences of the Troubadour-Lyrics and earlies Provençal Drama.

The Influence of Mediæval Latin Poetry upon Romance Versification.

One hour a week throughout the year.

The linguistic difference between Classical and Low Latin explains the change from quantitative to qualitative prosody. The fundamental difference between the rhythmic nature of Teutonic and Romance languages explains the dissimilarity in their respective versifications. The origin of Rime and of Isosyllabism in French.

Students who take this course are supposed to be familiar with classical and mediæval literature.

Advanced Old French Philology.

Two hours a week throughout the year.

The influence of Mediæval Latin upon the formation of the Old French literary language is studied. After an introduction to Mediæval Latin philology, the linguistic value of mediæval grammars, glosses, commentaries and interlinear translations is examined.

This course is open only to graduate students who have already taken the graduate course in Old French Philology and the Seminary in Mediæval French Literature or their equivalents.

Miss Pardé offers in each year the following graduate course:

Modern French Literature.

Three hours a week throughout the year.

The method used in advanced literary instruction in France and known as the "*Explication de textes*" will be employed, students being required to give oral lessons and to write many short papers.

In 1919-20 the period selected is the sixteenth century.

In 1920-21 seventeenth century authors will be studied.

In 1921-22 authors of the eighteenth century will be studied.

Dr. Schenck, Dr. Beck, Miss Pardé, Dr. Riddell, Dr. De Haan, and Miss Dorado together conduct the journal club in Romance languages.

Romance Languages Journal Club.

One and a half hours a fortnight throughout the year.

The journal club is intended to make the advanced students familiar with all the important European periodicals and with new books dealing with Romance Philology. For each session of the club an important article chosen from some one of the various periodicals is assigned to a student for review. The student is also referred to previous articles or publications treating of the same subject as that of the review, and is expected to present to the club a chronological outline of the history and stages of the discussion on the given point. Thus the students become familiar with the names of leading Romance scholars and with the particular lines of research in which each of the latter excels. At the same time such reviews prepare the way for seminary work and original investigations.

POST-MAJOR COURSES.

Dr. Schenck offers in 1919-20 and again in 1921-22 the following post-major course, open to graduate students:

The Short Story (*Nouvelle*) in the Nineteenth Century.

Two hours a week throughout the year.

In the first semester the *nouvelles* of the romantic period are studied in the works of Chateaubriand, Nodier, Vigny, Musset, Balzac, Mérimée, and Gautier. The lectures of the second semester treat the development and modification of realism by Flaubert, Zola, Daudet, Coppée, Loti, Bourget, France, and others, while a careful study of the technique of the *nouvelle* is made in connection with Maupassant. This course meets three hours a week throughout the year in 1919-20.

Dr. Schenck offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Modern French Drama.

Two hours a week throughout the year.

The course begins with a study of the plays of the Romantic period, and traces the development of French drama throughout the nineteenth century to the present day. The course is conducted by means of lectures, class-room discussion, and reports.

Miss Pardé offers in 1919-20 and again in 1921-22 the following post-major course, open to graduate students:

Les Moralistes Français.

Three hours a week throughout the year.

The authors studied are Montaigne, Pascal, la Rochefoucauld, La Bruyère, Diderot, Voltaire, Renan, Sainte Beuve, Taine, etc. This course meets two hours a week in 1919-20.

Miss Pardé offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Evolution of French Lyric Poetry.

Two hours a week throughout the year.

The origins of modern French lyric poetry are discussed with special emphasis on the poets of the 'Pléiade.' The romantic movement, l'Ecole du Parnasse, and the later nineteenth century poets are also studied.

Miss Pardé offers in 1920-21 and in each succeeding year the following post-major course open to graduate students:

Masterpieces of French Literature.

One hour a week throughout the year.

This course will be conducted according to the method of the "*Explication de textes*" used in the French Universities. The texts chosen will represent typical phases of the French genius.

FREE ELECTIVE COURSE.

Dr. Schenck offers in 1920-21 and in each succeeding year the following free elective course open to graduate students:

Modern Tendencies in French Literature.

Two hours a week throughout the year.

Contemporary French writers will be studied in relation to their predecessors and to modern movements. Lectures, class discussion and reports will be in English; the reading in connection with the course will be in French.

Only those students will be admitted who have completed the course in General English Literature or the course in Major French Literature, and have passed the general language examination in French the autumn preceding their registration for this course. In special cases, where the general language examination has not been taken, the student must satisfy the instructor that her knowledge of French is sufficient for the course.

Graduate students desiring to take this course must satisfy the instructor that their previous literary training is equivalent to that required of undergraduate students, and that their knowledge of French is sufficient.

Italian.

The instruction in this department is given by Dr. Agnes Rutherford Riddell, Associate in Italian.

GRADUATE COURSES.

The graduate seminary in Italian is varied from year to year in order that it may be pursued by a student for consecutive years. Students electing Italian as a major subject for the degree of Doctor of Philosophy are required to offer French Philology as an associated minor. For the list of approved independent minors see the Regulations of the Academic Council.

Dr. Riddell conducts in each year the following graduate seminary:

Seminary in Italian Literature.

Two hours a week throughout the year.

In 1919-20 the subject of the seminary is the Development of the Drama. The early drama, the *commedia dell' arte*, the drama of the eighteenth century, and the modern drama are studied.

In 1920-21 the subject of the seminary will be the Development of the Novel. The popular tale, the *novella*, and other manifestations of the story form will be studied. Special attention will be paid to the modern novel.

In 1921-22 the subject of the seminary will be the Romantic Epic, with special study of Boiardo, Ariosto and Tasso.

If necessary, modifications will be made in the work of the seminary to meet the special requirements of students presenting themselves for it.

Dr. Riddell offers in each year the following post-major course open to graduate students:

Modern Italian Drama.

Two hours a week throughout the year.

The course traces the development of the Italian drama from the time of Goldoni to the present day. Representative dramas will be read and discussed.

Dr. Riddell offers in each year the following undergraduate courses open to graduate students:

Introductory Italian.

Five hours a week throughout the year.

This course is specially designed to enable students (a) to read modern Italian and to write simple Italian; (b) to read Dante as soon as possible. The reading of Dante

will, it is hoped, be begun before the end of the first semester. Some practice is also given in speaking Italian.

Lectures on the History of Italian Literature.

Three hours a week throughout the year.

Reading from Petrarch, Boccaccio, Boiardo, Ariosto, Castiglione, Tasso, Goldoni, Alfieri, Manzoni, Leopardi, Carducci and others. The influence of Italian on other literatures, especially English literature.

Reading and Composition.

Two hours a week throughout the year.

Reading of modern plays and short stories by D'Annunzio and others. Composition in Italian.

Spanish.

The instruction in this department is given by Dr. Fonger DeHaan, Professor of Spanish, and Miss Carolina Marcial Dorado, Instructor in Spanish.

GRADUATE COURSES.

The graduate seminary in Spanish is varied from year to year in order that it may be pursued by a student for consecutive years. Students electing Spanish as a major subject for the degree of Doctor of Philosophy are required to offer French Philology as an associated minor. For the list of approved independent minors see the Regulations of the Academic Council.

Dr. DeHaan conducts in each year the following graduate seminary:

Seminary in Spanish.

Three hours a week throughout the year.

In 1919-20 the origins of the Spanish novel are studied.

In 1920-21 Calderon will be the subject of the seminary.

Dr. DeHaan offers in each year, if his time permits, the following graduate courses:

Spanish Philology.

One hour a week throughout the year.

Old Spanish Readings.

One hour a week throughout the year.

Miss Dorado conducts in each year the following graduate seminary:

Seminary in Spanish Literature.

Two hours a week throughout the year.

In 1919-20 Spanish literature from the middle of the nineteenth century up to the present time will be the subject of the seminary.

In 1920-21 Spanish literature of the first half of the nineteenth century will be studied.

In 1921-22 the late sixteenth and early seventeenth century will be the period dealt with.

POST-MAJOR COURSES.

Dr. DeHaan offers in each year the following post-major course open to graduate students:

Advanced Spanish.

Two hours a week throughout the year.

During the first semester Cervantes' *Novelas Ejemplares* and *Don Quijote* are studied; during the second semester the dramatical and poetical works.

Miss Dorado offers in 1919-20 and again in 1921-22 the following post-major course open to graduate students:

The Spanish Short Story.

Three hours a week throughout the year.

This course begins with a study of the Spanish Short Story in the nineteenth and twentieth centuries and traces its origin back to the writers of the Golden Age. A special study is made of the modern tendencies represented by Pardo Bazán, Blasco Ibañez and José Francés. The course includes also a brief survey of the leading short story writers of Latin-America.

Miss Dorado offers in 1920-21 and again in 1922-23 the following post-major course open to graduate students:

Spanish Lyric Poetry.

Three hours a week throughout the year.

The best lyric poetry published within the last fifty years is read and discussed.

MAJOR COURSE.

The following undergraduate courses, open to graduate students, are offered in each year:

FIRST YEAR.

Spanish.

Five hours a week throughout the year.

The object of this course is to give beginners a good knowledge of modern Spanish. The first weeks are given to the essentials of grammar; exercises at frequent intervals during the first semester give practice in the application of the principles; the remaining time is given to reading prose texts. In the second semester exercises in composition are continued but a greater proportion of the time is given to reading; novels and plays in prose are read and attention is paid to conversation. This course is conducted by Dr. De Haan and Miss Dorado in two sections.

SECOND YEAR.

Spanish.

Five hours a week throughout the year.

The work of the first year course is extended by the reading of moderately long and fairly difficult novels by representative modern authors, and some plays in verse, preferably of the classical period. Passages of continuous English prose are translated into Spanish. This course is conducted by Dr. DeHaan in the first semester, and by Miss Dorado in the second semester.

German.

The instruction in this department is under the direction of Dr. Eduard Prokosch, Lecturer in German and Anglo-Saxon, and Dr. Mary Agnes Quimby, Instructor in German.

GRADUATE COURSES.

The graduate courses offered in German philology may be found under the head of General Teutonic Philology.*

Graduate work in the history of modern German literature is conducted according to the seminary method. The courses are so varied that they may be followed by graduate students throughout three successive years and cover the work required of students who offer German literature as a major or a minor for the degree of Doctor of Philosophy. Students who elect German literature as their major subject in the examination for the degree of Doctor of Philosophy must offer Teutonic philology as an associated minor and students who offer Teutonic philology as a major subject must offer German literature as an associated minor. In the major together with the associated minor the student must offer two seminaries and a journal club for three years. A list of approved independent minors is given in the Regulations of the Academic Council.

The following graduate seminary is offered in each year:

Seminary in German Literature.

Two hours a week throughout the year.

It is hoped that the students will become familiar in the seminary with the methods of scientific literary criticism and investigation.

In 1920-21 the Romanticism of early modern German literature will be studied in the seminary.

In 1921-22 topics from the classical period of German literature will be studied. Alternative subjects of study will be Luther and the Humanists or Nietzsche.

In 1922-23 Goethe will be the subject of study in the seminary.

Other subjects may be substituted in accordance with the needs of the students.

One of the following graduate courses is offered in each year if the time of the department permits.

German Literary Criticism.

One hour a week during the first semester.

The lectures trace the development of literary and æsthetic criticism in Germany from Leibniz to Schiller and Goethe. The course is comparative, and French and English literary criticisms are also considered. Lessing's *Laokoon* and *Hamburgische Dramaturgie* and Schiller's essays on æsthetics are specially studied. The course is open to those students only who have a reading knowledge of French and German.

The German Essay.

One hour a week during the second semester.

The history of the essay in German literature is studied and the most eminent German essayists, Schopenhauer, Herman Grimm, Karl Hillebrand, Friedrich Nietzsche, etc., are discussed. The influence of French, English, and American writers, in particular Montaigne, Macaulay, and Emerson, is traced, and incidentally the evolution of modern German prose style is treated.

Goethe's *Faust*.

Two hours a week throughout the year.

This course is intended to give a detailed introduction to the problems of *Faust-philologie*, dealing with both the first and second part of *Faust*.

Goethe's Life and Works.

Two hours a week throughout the year.

This course aims at giving an introduction into *Goethe-philologie*.

* Owing to the small number of students electing courses in German arrangements will be made as required for instruction in the courses offered in German and in Teutonic Philology.

The German journal club is conducted in each year by the instructors in the department.

German Journal Club.

Two hours once a fortnight throughout the year.

At the meetings recent books and articles are reviewed and the results of special investigations presented for discussion, comment, and criticism.

POST-MAJOR COURSES.

In 1919-20 and again in 1921-22 the following post-major courses, open to graduate students, are offered:

German Literature from 1850 to the present time.

Two hours a week during the first semester.

The subject of this course is, in the first semester, the *Epigonen-Literatur*. The development of the modern German *Novelle* is discussed and Keller's, Storm's, and C. F. Meyer's works are specially studied. A full account of the poets of the *Münchener Schule* is given, in particular of Richard Wagner, Reuter, Groth, Freytag, Spielhagen, Scheffel, Raabe, Geibel, Heyse, and Schack.

German Literature from 1850 to the present time (continued).

Two hours a week during the second semester.

In the second semester among the subjects discussed are the influence of French, Russian, and Scandinavian literatures, especially of the work of Zola and Ibsen on German literature; modern German realism and naturalism as represented by Fontane, Anzengruber, Wildenbruch, Hauptmann, Sudermann, Liliencron, and Rosegger; the increased importance of women in literature, and the work of Marie von Ebner-Eschenbach, Louise von François, Ricarda Huch, Helene Böhlau, Isolde Kurz, Clara Viebig and others; the significance of Nietzsche for German life and literature; neo-romanticism and *Heimatsdichtung*.

In 1920-21 and again in 1921-22 the following post-major courses, open to graduate students, are offered.

Lectures on the History of German Literature from the Romantic School to 1850.

Two hours a week during the first semester.

This course begins with a general study of the principles of philosophy, life, art, and poetry, as represented by the Romantic School, which is followed by lectures on the literary movements, expressed mainly in lyric poetry and in the novel, which supersede the Romantic *Weltanschauung*. The lyrics of the war of liberation, the *Weltschmerz*, and the political revolution; the novel of *Jungdeutschland*; the drama of Heinrich von Kleist; the works of the Schlegels, Tieck, Hölderlin, Jean Paul, Novalis, Uhland, Lenau, Heine, Immermann, Freiligrath, Herwegh, Gutzkow, Mörike, and Gotthelf, are the principal topics discussed.

German Drama in the Nineteenth Century, continuation of the Romantic movement.

Two hours a week during the second semester.

The drama of Heinrich von Kleist is studied with special reference to that of the classical period, and to the dramatic efforts of the Romanticists. The place of Grillparzer in German literature is defined, as well as the significance of Grabbe and Raimund. This leads to Otto Ludwig and to Friedrich Hebbel, who is the central figure, chronologically as well as in importance, of the German drama during the nineteenth century. The course ends with a review of Anzengruber, Wildenbruch, Sudermann, Hauptmann, and of other modern writers.

The following post-major courses open to graduate students are given when the time of the department permits:

Advanced Critical Reading.

One hour a week throughout the year.

The reading is selected from works discussed in the post-major lectures on literature. The students give reports on dramas or novels, the object of the discussion being to trace the characteristics of the author, as shown in his works. Special attention will be paid to the needs of students who intend to teach German.

Elementary Middle High German.

One hour a week throughout the year.

This course has been arranged primarily for undergraduate students who wish to be able to read the Middle High German classics in the original. Paul's *Mittelhochdeutsche Grammatik* (8th edition, Halle, 1911) and Hartmann von Aue's *Der arme Heinrich* are used.

Advanced German Composition.

One hour a week throughout the year.

Difficult English prose selections are translated into German. The intention of the course is to increase the understanding and feeling for written and spoken German. Attention is paid to the needs of students intending to teach German.

GENERAL TEUTONIC PHILOLOGY.*

Special attention is called to the facilities for the study of comparative Teutonic philology offered by Bryn Mawr College. The English and the German departments together have provided for a complete course in Teutonic philology, comprising both the study of the individual languages (Gothic, Norse, Anglo-Saxon, Old Saxon, Old High German, Middle High German, Middle Low German, etc.) and the study of general comparative philology.

The courses in introduction to the study of Teutonic philology, Gothic, and Middle High German grammar, are designed for students in their first year of graduate study in Teutonic languages, and the remaining courses for students in their second or third year.

Students intending to elect Teutonic philology are advised to study Greek for at least one year during their undergraduate course.

GRADUATE COURSES.

The following graduate seminary is offered* in each year:

Teutonic Seminary.

Two hours a week throughout the year.

This seminary is arranged for the benefit of the most advanced students in Teutonic philology. Its object is to encourage independent work on the part of the students. The work consists mainly of the discussion of special topics by the instructor and the students. Members of the seminary are expected to study the literature on these subjects, and to make an effort to contribute some additional material, or an independent opinion of their own.

In 1919-20 Old High German texts such as *Merseburger Zaubersprüche*, *Muspilli*, and *Hildebrandslied* are studied in the first semester. The many problems that these texts

* See footnote, page 70.

offer and the various attempts to solve them are discussed. In the second semester modern High German texts are the subject of the seminary.

In 1920-21 the subjects of the seminary will be taken from Middle High German texts. Problems in text criticism as well as literary problems connected with the works of Middle High German poets either of the classical period or of the periods preceding or following it will be discussed.

In 1921-22 the seminary is devoted to High German texts from the fourteenth to the seventeenth century. The material is taken either from official documents of this period belonging to various parts of Germany or from the works of writers such as Murner, Hans Sachs, Luther, and others; or from grammatical works of this period in Müller's *Quellenschriften und Geschichte des deutschsprachlichen Unterrichts*, John Meier's *Neudrucke älterer deutscher Grammatiken*, etc. They are selected to illustrate the development of Modern High German. If it seems advisable Old Saxon texts (*Heliand* and *Genesis*) are also studied.

The order of these seminary subjects may be changed in accordance with the requirements of the students in any particular year.

The following graduate courses are offered* in each year:

Introduction to the Study of Teutonic Philology.

One hour a week throughout the year.

After a discussion of the aim and method of historical and comparative grammar, these lectures deal with the relation of Teutonic to the cognate Aryan languages. A brief sketch of the single Aryan languages is given, followed by a more comprehensive discussion of the Teutonic languages and chiefly of the West Germanic branch.

Gothic.

Two hours a week throughout the year.

Gothic phonetics and inflection are studied in connection with the elements of comparative Aryan grammar; on the other hand the Gothic forms are compared with those of other Teutonic languages. Braune's *Gotische Grammatik* (8th ed., Halle, 1912); or Streitberg's *Gotisches Elementarbuch* (3rd ed., Heidelberg, 1910) are used as text-books.

As a thorough knowledge of Gothic is the foundation of the study of historical and comparative Teutonic grammar, every graduate student of Teutonic grammar is advised to take this course as early as possible. *Die gotische Bibel* (ed. by W. Streitberg, Heidelberg, 1908) is used by the more advanced students.

Middle High German Grammar and reading of Middle High German Texts.

Two hours a week throughout the year.

This course includes a brief abstract of Middle High German grammar and literature with special reference to the difference between Middle High German and Modern German, and a study of the most prominent authors in Middle High German. Selections from classical Middle High German poets are read, and also selections from the *Nibelungenlied*, a brief account being given of the history and development of the *Nibelungenlied* and its manuscripts.

Students of Middle High German should be provided with Paul's *Mittelhochd. Grammatik* (8th ed., Halle, 1911), or Michels's *Mittelhochd. Elementarbuch* (2nd ed., Heidelberg, 1912).

This course is required of all students that make Teutonic philology a minor subject in their examination for the degree of Doctor of Philosophy.

The private reading includes the works of the authors treated in the course.

Middle Low German.

One hour a week throughout the year.

A sufficient knowledge of Old Saxon is presupposed on the part of students taking this course. The Middle Low German grammar is studied and representative Middle Low German texts are read. This course may be substituted for the course in Middle High German in accordance with the requirements of the students in any particular year.

Old Norse.

Two hours a week throughout the year.

Students entering this course are supposed to be acquainted with Gothic and with Anglo-Saxon or Old High German grammar. In the grammatical part of the course the

* See footnote, page 70.

Norse sounds and forms are studied and compared with those of the Gothic and West-Germanic dialects.

In the first year's course prose texts will be read; in the second year the Edda will be studied and some of the problems connected with the study of the Edda will be discussed.

The books used are Heusler's *Altisländisches Elementarbuch* (Heidelberg, 1913) and some of the *Islendinga sögur* (*Altnordische Saga-Bibliothek*) and Hildebrand-Gering's (3rd ed., Paderborn, 1913) or Neckel's (Heidelberg, 1914) *Edda*.

Attention is called to the facilities afforded for the study of Old Norse. A considerable portion of the library of the late philologist, Th. Wisén, of Lund, was acquired by Bryn Mawr College, and hence the library is probably as well supplied as any other college library in the United States with Old Norse texts, and works on Old Norse language and literature.

The following graduate courses are offered* in 1919-20 and 1921-22:

Old High German.

Two hours a week throughout the year.

This course includes a practical study of Old High German grammar, and a comparison of the Old High German sounds and forms with those of Gothic, Middle and Modern High German. The relations with other cognate languages of the Teutonic branch as well as other Aryan languages (chiefly Latin) are also discussed. Selections are read from Old High German texts, arranged so as to proceed from easy to more difficult pieces, and to illustrate the difference between the Old High German dialects.

Comparative Teutonic Grammar.

One hour a week throughout the year.

The study of comparative Teutonic philology is recommended to those students only who are acquainted with the single old Teutonic languages, and have studied Gothic, Old High German, Old Saxon, Anglo-Saxon, and Norse. The object of the course is to compare the various old Teutonic languages with each other and with the related Aryan languages,—or in other words (1) to reconstruct the primitive Teutonic language; (2) to point out the characteristic features of primitive Teutonic in distinction from primitive Aryan; (3) to carry down the history of early Teutonic from the period of unity into the early stages of the individual Teutonic languages.

The following graduate courses are offered* in 1920-21 and again in 1922-23:

Old Saxon.

Two hours a week during the second semester.

The work presupposes on the part of the students a sufficient knowledge of Gothic and Old High German. Holthausen's *Altsächsisches Elementarbuch* (Heidelberg, 1900) or Gallée's *Altsächsische Grammatik* (2nd ed., Halle, 1910), *Heliand* (Behaghel's edition), and Zangemeister-Braune's *Bruchstücke der altsächsischen Bibeldichtung* (Heidelberg, 1894) are used.

History of Modern High German.

One hour a week throughout the year.

These lectures deal with the history of the development of the German written language during the Modern High German period. The most important *Kanzleisprachen*, the most prominent *Druckersprachen*, Luther, Modern German sounds and forms in their relation to the German dialects and to the rules of the *Bühnenaussprache*, will be discussed.

In addition to the above courses, others in Old Frisian, or Modern Low German may be arranged for students that have previously studied Gothic, Old and Middle High German, Anglo-Saxon, and Old Saxon. A course in Sanskrit is offered which is specially recommended for students of Teutonic philology.

* See footnote, page 70.

Semitic Languages and Biblical Literature.

The instruction in this department is under the direction of Dr. George A. Barton, Professor of Biblical Literature and Semitic Languages.

The college was particularly fortunate in securing in the year 1892 the library of the late M. Arthur Amiaud, of Paris. While M. Amiaud was especially eminent as an Assyriologist, he was also prominent as a general Semitic student. His library was the collection of an active scholar, and forms a working library for the student in every department of Semitic study. It is especially rich in the Hebrew, Syriac, and Assyrian languages, containing several works, indispensable to the student, which are now out of print. Another Semitic library containing many works on the Talmud and on Jewish literature was acquired in 1904. Mr. Albert J. Edmunds presented to the college in 1907 his library of 500 volumes on the history of religion. The contents of these libraries, together with the books already owned by the college and those easily accessible in neighbouring libraries, form an exceptionally good collection of material for the specialist in Semitic languages. A good working collection of cuneiform tablets is under the control of the department, and affords an excellent opportunity for students of Assyrian to become familiar with original documents.

GRADUATE COURSES.

The graduate courses in Semitic languages are varied from year to year, as indicated below, so that they may be pursued by a student for four successive years. Those who offer Semitic languages as the major subject in the examination for the degree of Doctor of Philosophy are required to spend in Semitic work half their time for at least three years.

The work of the department is so arranged that students may specialize in Hebrew or Assyrian. Students who offer Hebrew or Assyriology as the major subject in the examination for the degree of Doctor of Philosophy must possess a knowledge of the grammatical forms of five Semitic languages and in this enumeration Syriac and Jewish Aramaic may not count as separate languages. For a list of approved associated and independent minors see the Regulations of the Academic Council.

The regular alternation of courses is indicated below and at least six hours a week will be given in each year, the courses being selected according to the needs of the graduate students. Graduate students may enter in any year of the four years' course, as there will be afforded each year an opportunity for graduate students to begin Hebrew.

No undergraduates are admitted to graduate courses.

Dr. Barton offers in 1919-20 and again in 1921-22 the following graduate courses:

Semitic Seminary.

Two hours a week throughout the year.

This seminary is devoted to Hebrew or Assyrian, the languages that may be offered as major subjects for the doctor's degree. The time may be devoted to one of these languages, or may be divided between the two, according to the needs of the students. In Assyrian the subject may be chosen from one of the following: the oldest Babylonian inscriptions, temple archives of Telloh, Sumerian hymns, the code of Hammurabi, Semitic contracts or mythological poetry. In Hebrew one of the following subjects may be selected: the historical books, Job, the Psalter, Isaiah, Jeremiah, Ecclesiastes and the Song of Songs, or Hebrew Epigraphy. In the Hebrew seminary the students are trained in textual criticism through the use of the ancient versions.

Comparative Semitic Grammar.

One hour a week throughout the year.

The grammar of Brockelmann is used as a basis with comparisons from the Egyptian and other Hamitic languages. This course is given in the fourth year of the study of Semitic languages.

Ethiopic.

One hour a week throughout the year.

The grammar and *Chrestomathia* of Praetorius and Dillmann are used and in the latter part of the course selections are read from the book of Enoch.

Seminary in Aramaic and Arabic.

Two hours a week throughout the year.

This seminary is devoted to Arabic or Aramaic, the languages that may be offered as minor subjects for the doctor's degree. The time may be devoted to one of the languages, or may be divided between the two, according to the needs of the students. In Arabic the subject may be chosen from one of the following: the Coran, pre-Islamic poetry, Arabic geographers, or South Arabic inscriptions. In Aramaic, one of the following subjects may be selected: a comparative study of the Syriac Versions of the Gospels, the Syriac Version of one of the Old Testament books, the writings of Gregory Bar Hebraeus, or of Efraem, the Targum on one of the Old Testament books, the Talmud, or Aramaic inscriptions.

Egyptian.

One hour a week throughout the year.

The elements of Egyptian and Coptic grammar are taught, and some texts in each language interpreted.

Seminary in Oriental Archæology.

One hour a week throughout the year.

The work of this course may be devoted to the archæology of Mesopotamia, Palestine, or Egypt according to the needs of the students. It consists of extensive courses of reading in the literature of the subject, together with a study of photographs and archæological objects, of reports, criticisms, conferences, and occasional lectures. To meet the needs of students of ancient history, the seminary may in some years be devoted to the history of one of the countries mentioned. The work will then consist in a study of the sources of the history of the country chosen, and the proper method of using them.

Dr. Barton offers in 1920-21 and again in 1922-23 the following graduate courses:

Semitic Seminary.

Two hours a week throughout the year.

The work of the seminary is continued as given in 1919-20.

Seminary in New Testament Greek.

One hour a week throughout the year.

The work of the seminary is varied from year to year, so that a continuous course, covering the interpretation and the literary problems of the entire New Testament and the sub-Apostolic literature, may be pursued through four years. A year is devoted to the New Testament Epistles, another to the interpretation of the Gospels and the Synoptic

and Johannine problems, a third to the books of Acts and Revelation, and a fourth to the Apostolic Fathers. During the first year of her work each student is given guidance in a course of reading on the history of the text and the science of textual criticism and also guidance in the practice of this discipline. A course in Greek equivalent to the major course in Greek in Bryn Mawr College is required of students taking this seminary.

Seminary in the History of Religion.

One hour a week throughout the year.

The work of this seminary may be carried on in either of the following ways: By means of lectures, reports, and discussions the principal features of primitive religions are ascertained, and the principal civilized religions studied with special reference to origin, historical development, and religious point of view. The time may be devoted to investigating problems connected with one religion.

Elementary Semitic Languages.

Two hours a week throughout the year.

This course may be devoted to the elements of Hebrew, or of Aramaic (Syriac and Jewish Aramaic), or Assyrian, or Arabic according to the needs of the students. The time may, if necessary, be divided between two of these languages.

Hebrew Literature.

One hour a week throughout the year.

This course is devoted to a study of the Prophets, the Pentateuch, and the historical books of the Old Testament.

Dr. Barton offers each year one of the following free elective undergraduate courses in biblical literature; the course selected by the greatest number of students will be given:

History of the Old Testament Canon.

Two hours a week throughout the year.

In this course the history of the composition of the books of the Old Testament and their collection into a canon are studied. Special attention is given to the literary form and purpose of each book.

History of the New Testament Canon.

Two hours a week throughout the year.

In this course the history of the composition and collection of the books of the New Testament is studied. The instruction is given in lectures, and reading is assigned in the New Testament and in modern literature concerning it.

New Testament Biography.

Two hours a week throughout the year.

The first semester of this course is devoted to a careful study of the life and teaching of Christ; the second semester to the life and teaching of St. Paul. The Gospels and Epistles are read, together with the most helpful of the modern works on these topics. The course is illustrated by photographs of the most important places connected with the lives of Christ and St. Paul.

History of Christian Doctrine.

Two hours a week throughout the year.

In the first semester the study is devoted to the Old Testament conceptions of God, Sin, and Redemption, and to Christianity as presented by its Founder and by the apostles, and in the second semester the history of Christian doctrine from 100 A. D. to the present time is briefly reviewed, and problems presented by modern thought are touched upon.

The Religions of the World.

Two hours a week throughout the year.

The course begins with a study in primitive religions of certain fundamental conceptions. The great historical religions of the world are then studied in outline with special reference to the origin, development, and fundamental ideas of each.

Dr. Barton offers in each year the following free elective undergraduate courses in Oriental History, which taken together cover the great civilizations of Asia and North Africa:

History of the Near East.

Three hours a week throughout the year.

This course treats in broad outlines the history and civilization of the Classical Orient. The beginnings of the Hamito-Semitic race, and the influence of environment upon its primitive institutions are first studied. The separation of the races into the different nations is then traced, and the history of the principal Oriental nations, Egyptians, Babylonians, Assyrians, Phœnicians, Hebrews, Hittites, Sabæans, and Persians; of Alexander and his successors; of the Parthians, and the oriental empire of the Romans, is followed in outline. Special attention is paid to the history of the Hebrews, and to their unique religious contribution to the civilization of the world. The course concludes with a study of the Arabic caliphates, and of Mohammedan civilization. The lectures are illustrated by archæological specimens and by photographs. Either semester may be elected separately.

History of the Far East.

Two hours a week throughout the year.

This course treats in outline the history of China, India, and Japan from the earliest times to the present. It aims to acquaint the student with the origin, development, and principal features of the civilizations of those lands.

History.

The instruction in this department is under the direction of Dr. Howard Levi Gray, Professor of History, Dr. William Roy Smith,* Professor of History, Dr. Charles Wendell David, Associate Professor of European History, and Dr. Edith E. Ware, Lecturer in History.

GRADUATE COURSES.

Three distinct seminaries, two in Mediæval and Modern European history and one in American history, are offered to graduate students in history in addition to a course in Historical Bibliography and Criticism and the direction of private reading and original research. Students may offer either European History or American History as a major for the degree of Doctor of Philosophy. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Gray conducts in each year the following graduate seminary:

Seminary in Mediæval and Modern European History.

Three hours a week throughout the year.

In 1919-20 aspects of Yorkist and Tudor England are studied. Among these are the significance of the War of the Roses, the rise of a new nobility, the character of the absolutist government, the renunciation by the English church of papal authority, the consequent dogmatic and social changes, the commercial rivalry and the conflict with Spain.

In 1920-21 the seminary will be devoted to the problems of contemporary Europe and will rely upon recent historical literature. The genesis, the progress, and the results of the world war will furnish the topics for study. Attention will be given to the development of the industrial society of the second half of the nineteenth century, to the staging of the

* Granted leave of absence for the year 1919-20. The courses announced by Professor William Roy Smith for the year 1919-20 are given by Dr. Edith E. Ware.

conflict by national interests and rivalries, to the adaptations required by the war, and to changes attendant upon reconstruction and influenced by the commanding position of labour in the social order of the day.

In 1921-22 the seminary will be concerned with the history of England during the Hundred Years' War. Diplomatic negotiations, innovations in military science, the new taxation necessitated, the hostility not infrequently shown to the government, the social changes associated with the Black Death and the Peasants' Revolt, the doctrines advocated by Wiclif, the rise of the woollen industry and of a native merchant class, are among the subjects to which consideration is given.

Dr. William Roy Smith* conducts in each year the following graduate seminary:

Seminary in American History.

Two hours a week throughout the year.

In 1919-20 the seminary deals with the Civil War and Reconstruction. Special stress is laid upon the social, economic, and political reorganization of the South, the North and the West and also of the nation as a whole during the period from 1861 to 1877.

In 1920-21 the subject of the seminary will be slavery and the negro problem. After a preliminary survey of the history of slavery in the colonial period such topics as the slavery compromises of the constitution, the growth of slavery in the South, the abolition of the slave trade, the Missouri Compromise, the anti-Slavery movement, nullification, the Mexican War, the Willmot Proviso, the compromise measures of 1850, the Kansas-Nebraska bill, the Dred Scott decision, the abolition of slavery, and the adoption of the thirteenth, fourteenth, and fifteenth amendments are discussed. Special attention is paid to the conflict between sectionalism and nationalism and the connection between slavery, territorial expansion, and the development of constitutional theories.

In 1921-22 the Revolution, the Confederation, and the Constitution will be the subjects of study. American history from 1776 to 1789 is discussed primarily from the local point of view as a step in the conflict between the seaboard aristocracy and the democracy of the frontier. The social and economic forces which led to the adoption of the Federal Constitution and the subsequent formation of national political parties are investigated.

All students offering this seminary for the degree of Doctor of Philosophy are required to offer in addition the course in Historical Bibliography and Criticism.

Dr. David conducts in each year the following graduate seminary:

Seminary in Mediæval and Modern European History.

Two hours a week throughout the year.

In 1919-20 the subject of the seminary is England during the transitional period of the late eighteenth and early nineteenth centuries. Special attention is paid to the reform movement from 1769 to 1832, to the effect of the struggle with revolutionary France and Napoleon upon England, and to the industrial revolution.

In 1920-21 the subject of the seminary will be England during the twelfth and thirteenth centuries. Special attention will be paid to institutional and cultural developments, as well as to statistical history.

In 1921-22 the subject of the seminary is the French Revolution and Napoleon. Topics are selected for special study either from the revolutionary or from the Napoleonic period, with a view to illustrating various kinds of historical problems and gaining an adequate working knowledge of the principal printed sources and of the more important secondary writers.

Dr. David offers in each year the following graduate course:

Historical Bibliography and Criticism.

One hour a week throughout the year.

Historical bibliography will be the subject of the course during the first semester. Special attention will be paid to bibliographical guides; to libraries, archives, and manuscript

* See footnote, page 78.

collections; to important sets of printed sources; to the development of historical studies since the Renaissance; and to the work and rank of leading historians of the modern school. Historical analysis and synthesis will be treated during the second semester. Special attention will be paid to the external and internal criticism of documents; to the auxiliary sciences; to the arrangement and presentation of the results of historical research; and to the relation of history to science. The course will consist of informal lectures and supplementary reading, with some assigned topics illustrative of the problems under discussion. This course must be elected by all students in history during their first year of graduate study.

Dr. Gray, Dr. William Roy Smith,* Dr. David, and Dr. Ware conduct in each year the historical journal club.

Historical Journal Club.

Two hours once a fortnight throughout the year.

The instructors in the department of history and the graduate students who are pursuing advanced courses in history meet once a fortnight to make reports upon assigned topics, review recent articles and books, and present the results of special investigations.

POST-MAJOR COURSES.

Dr. Gray offers in 1919-20 the following post-major course, open to graduate students:

England to 1485.

Three hours a week throughout the year.

The transformation of Anglo-Saxon into Norman England, the constitutional and legal innovations of the Norman and Plantagenet kings, the intellectual and social condition of England at the height of the Middle Ages, and the effects of the Hundred Years' War are subjects of study. The more important documents and secondary works are discussed and written reports are required.

Dr. David offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

The French Revolution and Napoleon. *Three hours a week throughout the year.*

This course treats of the history of France and of Europe from 1789 to 1815, by means of lectures, assigned readings, and reports. The period is considered as an organic whole and the career of Napoleon is regarded as that of a child of the Revolution who in his later years abuses what has made him. The increasing mass of secondary material is appraised and some printed documentary material is used for reports and references.

Dr. Gray offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

England under the Tudors.

Three hours a week throughout the year.

Attention will be given to the character of Tudor absolutism, parliamentary and local government, dynastic ambitions, foreign trade, the prosperity of the towns, and the yeomen, the progress of the Reformation, and the complications in foreign affairs arising from religious changes. The reading and reports will be based largely upon contemporary documents.

* See footnote, page 78.

Dr. William Roy Smith offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

American Constitutional History to 1783.

Two hours a week throughout the year.

The text-books used in the course are MacDonald's *Select Charters of American History* and *Select Documents of the History of the United States*. The members of the class are also systematically referred, not only to the general authorities, but also to colonial charters and constitutions, the records of the colonial governments as far as they are available, the journals of Congress, and other documentary materials. This course was omitted in 1919-20.

Dr. William Roy Smith offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

American Constitutional History from 1783 to 1865.

Two hours a week throughout the year.

The lectures deal with the leading aspects of the political, constitutional, and economic history of the United States from the ratification of the constitution to the present time. The text-book used is MacDonald's *Select Documents of the History of the United States*, but frequent additional references are given to the leading secondary authorities. To a limited extent use will be made of such documents as are available in the library, and special topics will be assigned for discussion and report.

ELECTIVE COURSE.

Dr. David offers in 1921-22 and again in 1923-24 the following free elective course, open to graduate students:

Civilization of the Ancient World.

Three hours a week throughout the year.

The origin and development of Mediterranean civilization from the earliest times to the fourth century A. D. are broadly treated. Special attention is paid to Greece and Rome but the evolution of civilization as a whole is the main theme of the course.

Economics and Politics.

The instruction in this department is under the direction of Dr. Marion Parris Smith,* Professor of Economics and Politics, Dr. Charles Ghequiere Fenwick, Professor of Political Science, Dr. George Hermann Derry, Lecturer in Economics, and Miss Marjorie Lorne Franklin, Instructor in Economics and Politics.

GRADUATE COURSES.

Three seminars, one in economics and two in political science, are offered each year in addition to the direction of private reading and original research. Post-major courses amounting to five hours a week which may be elected by graduate students are given in each year. Students may offer either economics or politics as their major subject for

* Granted leave of absence for the year 1919-20. The courses announced by Professor Marion Parris Smith for the year 1919-20 are given by Dr. George Hermann Derry.

the degree of Doctor of Philosophy. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Marion Parris Smith conducts in each year the following graduate seminary:

Economic Seminary.

Two hours a week throughout the year.

The object of the seminary is to train students in methods of research and to give them practice in using the sources of economic history and theory.

In 1919-20* the Theories and Problems of Distribution and the agencies in modern social life that affect the distribution of wealth are studied. Special attention is paid to wage problems, profit sharing, various plans for controlling large scale production, land reforms, and income and excess profits taxation.

In 1920-21 Economic Theory and Economic History in the United States from 1790 to 1850 will be studied.

In 1921-22 the Tariff, Currency and Banking in the United States will be the subjects of the seminary.

In 1922-23 the subject of the seminary will be Taxation, Banking and Railroad Finance since 1900.

Dr. Fenwick conducts in each year the following graduate seminary:

Political Seminary.

Three hours a week throughout the year.

The methods of instruction in the seminary are designed to guide advanced students in special research work along the lines indicated by the titles of the courses. Some lectures are given but the main attention is devoted to the presentation and criticism of the results of studies made by the students themselves.

In 1919-20 Comparative Constitutional Government is the subject of the seminary. The object is to compare and contrast the several forms of constitutional government represented by the United States, Great Britain, France and Germany, together with a study of the new constitutional governments of Russia, Czecho-Slovakia, and China, if proper material be available. Among the questions raised are the location of sovereign power, the authority of the constitution, the restrictions placed by the constitution upon the governing bodies, and the protection afforded by the constitution to the rights of individuals and minorities.

In 1920-21 the Constitutional Law of the United States will be the subject of the seminary. The decisions of the Supreme Court of the United States will form the basis of the work. Special stress will be laid upon the relations between the federal and state governments, interstate commerce, and due process of law under the Fourteenth Amendment. Students will be required to present brief reports upon assigned cases in the first semester and to prepare a longer report upon a group of cases in the second semester.

In 1921-22 Constitutional Questions involved in Modern Economic and Social Problems will be the subject of the seminary. The chief economic and social problems of the United States are studied from the point of view of the restrictions placed by the Constitution upon the legislative powers of Congress and of the several states dealing with those subjects. As an introduction the various theories relating to the proper functions of the state are discussed.

Miss Franklin conducts in each year the following seminary:

Seminary in Municipal Government.

Three hours a week throughout the year.

This seminary deals with the structure and functions of modern municipal government. The legal relation of the city to the state, city charters, various types of city government,

* See footnote, page 81

including the commission and city-manager forms, are considered in the early part of the course. A study of modern municipal administration follows, including municipal finance and budgetary problems, city planning, housing, public health and sanitation, franchises and public utilities. The discussion of modern agencies for research in city government is supplemented by practical field work at the Philadelphia Bureau of Municipal Research.

Dr. Marion Parris Smith,* Dr. Fenwick, Dr. Derry, and Miss Franklin conduct in each year the economics and politics journal club.

Economics and Politics Journal Club.

Two hours once a fortnight throughout the year.

At the meetings recent books and articles are reviewed and the results of special investigations presented for discussion, comment, and criticism.

POST-MAJOR COURSES.

Dr. Marion Parris Smith offers in 1919-20* and again in 1921-22 the following post-major course, open to graduate students:

Economic and Social Legislation in England and America since 1890.

Three hours a week throughout the year.

The first semester is devoted to a review of recent English legislation dealing with trade unions, workmen's compensation, minimum wages, the sweated trades, old age pensions, the unemployed, child-welfare, and the land system. In the second semester American legislation on these subjects is reviewed, as well as recent Anti-Trust legislation. Special topics are assigned to students for reports, and attention is given to the use of original source material.

Dr. Marion Parris Smith offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

American Economic and Social Problems. *Three hours a week throughout the year.*

The object of this course is to trace certain social movements in the United States from 1865 to the present time. Special studies are made of the changes in rural and urban population; the development of city life; the problems of country life; immigration, the race problem; problems of food distribution and marketing, cost of living, etc. Special topics are assigned to students for reports and attention is given to the use of original source material.

Dr. Fenwick offers in 1919-20 and again in 1920-21 the following post-major course, open to graduate students:

International Law.

Two hours a week throughout the year.

The object of this course is to present the rules of international law as a positive system with an historical background of custom and convention. Use is made of judicial decisions of British and American courts applying the principles of international law wherever such cases are in point, and an endeavour is made to determine the precise extent to which a given rule is legally or morally binding upon nations. At the same time an attempt is made to formulate constructive rules of law to meet the needs of existing international relations.

* See footnote, page 81.

Dr. Fenwick offers in 1921-22 the following post-major course, open to graduate students:

Constitutional Law of the United States.

Two hours a week throughout the year.

In this course the leading principles of the American constitutional system will be examined. The course will deal principally with the federal constitution and the decisions of the Supreme Court of the United States. Some attention will be given, however, to state constitutions and the decisions of state courts. Stress will be laid upon decisions relating to social and economic questions.

FREE ELECTIVE COURSE.

Dr. Fenwick offers in each year the following free elective course, open to graduate students:

Elements of Private Law.

One hour a week throughout the year.

The object of the course is to familiarize the student with the principles and technical terms of those branches of private law with which the ordinary citizen is brought into contact. The subjects covered include Persons and Domestic Relations, Contracts, Torts, Real and Personal Property, and the chief forms of Procedure. The lectures are supplemented by a study and discussion of court cases bearing on the subject. The course is open only to students who have pursued a course in economics and politics or in history for at least five hours a week for a year.

Social Economy and Social Research.

The Carola Woerishoffer Graduate Department of Social Economy and Social Research.

This department was opened in the autumn of 1915 and is known as the Carola Woerishoffer Graduate Department of Social Economy and Social Research in order that the name of Carola Woerishoffer may be associated in a fitting and lasting way with Bryn Mawr College which she so generously endowed. The department affords women an opportunity to obtain advanced scientific training in social and industrial advancement to which Carola Woerishoffer devoted her life.

The instruction in this department is under the direction of Dr. Susan Myra Kingsbury, Carola Woerishoffer Professor of Social Economy and Director of the Carola Woerishoffer Department of Social Economy and Social Research, Miss Anna Bezanson, Instructor in Social Economy, Dr. Neva Deardorff, Non-resident Lecturer in Social Economy, Miss Henrietta Additon, Non-resident Lecturer in Social Economy and Mrs.

Eva Whiting White, Non-resident Lecturer in Social Economy, Miss Gladys Louise Palmer, Reader in Social Economy and Miss Florence Mason, Secretary to the Department of Social Economy and Social Research, with the co-operation of the following members of the closely allied departments of Economics and Politics, Psychology, Education, and Philosophy: Dr. Marion Parris Smith,* Professor of Economics; Dr. Charles Ghequiere Fenwick, Professor of Political Science; Dr. George Hermann Derry, Lecturer in Economics; Miss Marjorie Lorne Franklin, Instructor in Economics and Politics; Dr. Theodore de Leo de Laguna, Professor of Philosophy; Dr. James H. Leuba, Professor of Psychology; Dr. Clarence Errol Ferree, Professor of Experimental Psychology; Dr. Gertrude Rand, Associate in Experimental and Applied Psychology; Dr. Matilde Castro, Professor of Education; Dr. Ada Hart Arlitt, Associate in Educational Psychology; Dr. David Hilt Tennent, Professor of Biology, and Dr. Ellen C. Potter, Lecturer in Social Hygiene. The seminars and courses given by these instructors and enumerated below are specially adapted for students of Social Economy and Social Research.

The courses in Social Economy and Social Research are intended for graduate students who may present a diploma from some college of acknowledged standing. No undergraduate students are admitted although graduate students in the department may elect, subject to the approval of the Director of the Department, undergraduate courses in other subjects.

Students of this department should offer for admission to their graduate work a preliminary course in economics, and more advanced courses equivalent to the Bryn Mawr College major course in economics, politics, psychology, philosophy, or history, and also preliminary work in psychology or biology, or should follow such courses while taking the work of the department.

The courses are planned for one, two, and three years, on the principle that about two-thirds of the student's time shall be given to the study of theory and the remaining one-third to practical work in her chosen field. Students entering the department are expected to pursue the work throughout one

* Granted leave of absence for the year 1919-20.

year at least. After one year of work in this department one-half year may be given to a practicum in residence in a social service institution, in connection with a social welfare or community organization, in a federal or state department of Labour and Industry, in a federal or state employment office, or in a manufacturing or mercantile establishment in Philadelphia, New York, New England, or elsewhere, during which time the practical work and special reading and research will be supervised by the instructor in charge of the practicum at the college and by the head of the institution, department or business firm.

The fields from which a subject for the practicum may be chosen are as wide as are the organized activities for social welfare. Advantage has been taken by the department of the very generous interest and co-operation of the Philadelphia social agencies, federal and state departments and manufacturers and merchants to secure for its students definite affiliations with practical work in the fields chosen by them. This has led in the years 1915-19 to an arrangement for co-operative work with the College Settlement, the Municipal Court, the Society for Organizing Charity, the Women's Trade Union League, the Social Service Department of the University of Pennsylvania Hospital, the Bryn Mawr Community Center, the Massachusetts Minimum Wage Commission, the Federal Children's Bureau, the Children's Aid Society, the Consumers' League, the Seybert Institution, the White-Williams Foundation, the U. S. Employment Service, the State Department of Labour and Industry, and the American Red Cross.

The following business firms have afforded opportunity for practical work in industrial supervision and employment management, in or near Philadelphia;

The Aberfoyle Manufacturing Company, The American Pulley Company, The Atlantic Refining Company, The Barrett Company, Bell Telephone Company, Edward G. Budd Manufacturing Company, A. M. Collins Company, Curtis Publishing Company, Henry Disston & Sons Company, Eddystone Munitions Works, General Electric Company, Hog Island, Link Belt Company, Midvale Steel Corporation, Miller Lock Company, Notaseme Hosiery Company, Fayette R. Plumb Company, The Scott Company, J. B. Stetson Company, Sutro Hosiery Company, John Wanamaker, The Whitman Candy Company.

Graduates of colleges other than Bryn Mawr College that have presented the required preliminary work in economics, political science and psychology and have satisfactorily completed courses approved by the Director for one year only will receive certificates stating these courses. Graduate students

that have presented the required preliminary work and have satisfactorily completed courses approved by the Director during two years will receive certificates stating these courses.

Graduates of Bryn Mawr College and of other colleges of good standing, may receive the degree of Master of Arts in Social Economy and Social Research under the conditions prescribed for this degree in Bryn Mawr College.

The degree of Doctor of Philosophy in Social Economy and Social Research is open to graduates of Bryn Mawr College and of other colleges of good standing under the conditions prescribed for this degree in Bryn Mawr College.

Seven seminars, three including practicums, and five graduate courses, are given each year in the Carola Woerishoffer Department in addition to seminars and courses in economics, politics, education, philosophy, and psychology. Direction of investigation and research in special fields, and supervision of the practicum in social and industrial welfare accompanies the seminars and courses. The seminars announced by the department are given in rotation so that different seminars may be taken in consecutive years. The selection of courses depends upon the field of social work which the student may choose. A seminary in Social Economy or a seminary in Social Theory, and, unless previously taken, undergraduate courses in Elements of Statistics and Methods of Social Research are required of all students of the department.

GRADUATE COURSES.

The following graduate seminars and courses may be elected subject to the approval of the Director of the Department by students working for the first and second year certificates as well as by candidates for the degree of Master of Arts or of Doctor of Philosophy in Social Economy and Social Research, or may be offered as the associated or independent minor with the approval of the Director of the Department when the major is taken in certain other departments according to the regulations of the Academic Council.

Dr. Kingsbury conducts in each year the following graduate seminary:

Seminary in Social Research.

Three hours a week throughout the year.

In 1919-20 the subject of the seminary is Community and Industrial Surveys.

In 1920-21 the subject of the seminary will be Social Research in one of the following

aspects of Social and Industrial Problems: (1) social relations, (2) vocational opportunities and demands, (3) standards of living, including income and wages, (4) the relation of health and industry, (5) industrial relations of women and miners. Research including field work with conferences will be required of all students. A group of students may co-operate to produce a study which will prove a contribution to our knowledge of the social or industrial conditions investigated.

As the chief subjects of investigation will vary from year to year, as noted above, it will be possible for students to follow the work of the seminary for three consecutive years.

Dr. Deardorff conducts in 1919-20 and again in 1921-22 the following graduate seminary:

Seminary in the Family as a Social Institution.

Two hours a week throughout the year.

A study is made of theories regarding the origin and evolution of the family as a social institution such as the patriarchal theory, the theory of the horde and mother-right, and the theory of the monogamous or pairing family. In connection with these theories are considered the questions of original communism, polygamy, polyandry, monogamy, exogamy, endogamy, wife-capture, wife-purchase, marriage contracts, and divorce, and finally modern theories as to the future of the family.

Dr. Deardorff conducts in 1920-21 and again in 1922-23 the following graduate seminary:

Seminary in Races and Peoples.

Two hours a week throughout the year.

A study is made of the definitions of race, of theories regarding the origin and evolution of races, and of sociological characterizations of peoples.

Miss Bezanson conducts in 1919-20 and again in 1920-21 the following graduate seminary:

Seminary in Labour Organization.

Two hours a week throughout the year.

Assuming on the part of students a knowledge of the general concepts of labour economy this seminary discusses questions dealing with trade unionism, employers' associations, wage systems, scientific management, and unemployment. The modern problem of industrial democracy is traced through the various stages of collective bargaining, shop agreements, co-operative management and the recent developments of the British National Industrial Councils.

Miss Bezanson conducts in 1919-20 and again in 1921-22 the following graduate seminary:

Seminary in Industrial Organization.

Two hours a week throughout the year.

This seminary undertakes a study of business organization as an element in industrial society. It especially emphasizes the aspects of the industrial combination in its effects upon efficiency and wages.

The purpose is also to present the standard practice in industrial organizations and management. It gives a conception of the entire plant structure in order to suggest possibilities of co-operation between departments, and to insure an understanding of their difficulties. It will concern itself with the location and equipment of a plant and its administration, including functions of the officials and departments and their inter-relations in all stages from purchasing and employing to marketing.

Dr. Castro conducts in 1919-20 and in each succeeding year the following graduate seminary:

Seminary in Social Education.

Two hours a week during the second semester.

The Essentials of Educational Theory and Practice for Community Workers are studied in this seminary. The subjects dealt with serve as an introduction to the educational principles involved in the intelligent direction of such activities as community centres, settlement classes, clubs, etc. Among the subjects studied will be the characteristic mental and physical development of childhood, adolescence, youth, and maturity. This study will be used as a basis for the selection of the educational materials and methods appropriate to the needs and capacities of different groups of varying ages and differing educational opportunities.

Dr. Kingsbury conducts in each year the following graduate seminary:

Seminary in Social Economy Applied to Community Organization and Administration.

Two hours a week throughout the year.

This seminary includes the Practicum in Community Organization and Administration. It combines practical work in social and community education with reports and discussions. It must be accompanied by the course in Community Organization and must be preceded or accompanied by the seminary in Social Education—Essentials of Educational Theory and Practice for Social Workers—or its equivalent. In addition to reports and conferences, seven or twelve hours a week, according to election, are devoted to active work in a social center or settlement by which the student gains vital illustration of the principles and organization of community work.

The practice work is so arranged as to give to the student training in the following activities:

(1) Direction and teaching of clubs and classes as observers, visitors, helpers and assistants.

(2) Regular daily management as assistants and later as directors, and as block organizers.

(3) General administrative assistance in office work, including record-keeping, in library work, in activities to secure publicity, in preparation of newspaper articles, reports, posters, exhibits, parades, dramatics, plays, festivals, demonstrations, concerts, and lectures, in public speaking and writing, and in conducting financial campaigns and special studies.

(4) Teaching in night schools of classes in civics and elementary subjects, and conducting special classes in handwork, games, dramatics, gymnastics, playgrounds and kindergarten activities.

(5) Co-operation with civic movements, community campaigns and emergency activities, school programs and propagandist efforts.

Training in the theory and supervision of practice in Physical Education may accompany this seminary.

Two or three months of non-resident practice in social centers and settlements, playgrounds or fresh-air camps may be arranged for the summer following the resident work at Bryn Mawr.

The fields from which the subject for the practicum may be chosen are community, civic and social centers, settlements, playgrounds, and health and recreation centers, and have included the Bryn Mawr Community Center, The Philadelphia College Settlement and work in smaller neighboring communities.

Dr. Deardorff and Miss Additon conduct in each year the following graduate seminary:

Seminary in Social Economy Applied to Social Relief and Social Guardianship.

Two hours a week throughout the year.

This seminary includes the Practicum in Social Relief and Social Guardianship. It must be accompanied by the course in Social Treatment of Dependents, Delinquents, and Defec-

tives or the course in Legal Procedure in Cases Involving Women and Children. Field work is carried on seven to twelve hours per week with such agencies as the following: The Philadelphia Society for Organizing Charities; The Home Service Department of the Red Cross; The Children's Bureau, an agency which investigates all complaints concerning children; The Children's Aid Society, a Child-Placing Agency; The Girl's Aid; The Vocational Guidance Bureau; Hospital Social Service Departments and the various departments of the Municipal Court, such as the Probation, Statistical, Employment Agency and Psychological Departments.

The field work with these agencies is under the supervision of the instructors and of the director of the particular agency or department. In addition to the regular practice work, students are taken on observation trips to courts, almshouses, orphanages, asylums, institutions for the feeble-minded, the blind, the crippled, hospitals, etc.

Miss Bezanson conducts in each year the following graduate seminary:

Seminary in Social Economy Applied to Industrial Supervision and Employment Management. *Two hours a week throughout the year.*

This seminary includes a practicum in Industrial Supervision and Employment Management, and consists of one day per week of industrial experience in or near Philadelphia and four months of non-resident industrial experience. During the period of residence at Bryn Mawr, the field work is devoted to assisting in an employment office, while group observation trips are regularly arranged. In the non-resident period the student, in addition to experience in the employment office, by being transferred from process to process, is enabled by plant supervision to see not only the conditions of work but the adjustment of employment problems to the other factors of industry. Experience may also be afforded in the federal employment service and in factory inspection. In connection with this seminary each student must take the course in Industrial Supervision and Employment Management, and must precede or accompany it by the Seminary in Labour Organization or Industrial Organization or the equivalent.

Miss Additon offers in each year the following graduate courses:

Social Treatment of Dependents. *Three hours a week during the first semester.*

This course involves a study of the principles, methods, and agencies employed for the prevention, relief and cure of dependency, defectiveness, and delinquency, such as family case-work, outdoor relief, and institutional care. This course must be accompanied by the seminary in Social Economy including the practicum in Social Relief or Community Organization and Administration. The following outline in very brief form presents the topics considered: (1) Causes of Dependency; (2) The Poor Laws; (3) The Principles and Methods in Family Case Work; (4) Outdoor Relief; (5) Agencies and Institutions Caring for Dependents, for dependent adults and for dependent children.

Social Treatment of Delinquents and Defectives.

Three hours a week during the second semester.

This course involves a study of the principles, methods, agencies and institutions employed for the prevention, care and cure of defectives and delinquents, such as juvenile courts, probation and parole systems, the indeterminate sentence and psychological laboratories in connection with the courts. This course must be accompanied by the seminary in Social Economy applied to Social Guardianship.

During the semester the following topics are considered:

I. Delinquents: (1) Causation Theories of Delinquency; (2) Theories of Punishment; (3) Penal Codes; (4) Criminal Courts; (5) Treatment of Criminals: Suspended sentences, Probation, Institutional Custody and Care, Parole; (6) Psychological laboratories in connection with Courts, Detention Homes and Correctional Institutions.

- II. Defectiveness: (1) Causes of defectiveness; (2) Clinical types of defectives; (3) Educational classification of defectives; (4) Eugenic problems; (5) Criminal problems; (6) Institutional treatment of defectives; (7) Non-institutional treatment of defectives.

Legal Procedure in Cases Involving Women and Children.

Two hours a week throughout the year.

The administrative side of the law affecting women and children is presented in this course. It includes a study of the law as applied in juvenile courts, domestic relations courts, and other municipal courts.

Mrs. White offers in each year the following graduate course:

Community Organization.

Two hours a week throughout the year.

The theory upon which community work is based and the technique used in its conduct are presented in this course to accompany the field practice which is carried on under the Seminary in Social Economy Applied to Community Organization. Experience of the student in the field is constantly used to exemplify the principles formulated. In the first semester the discussion pertains to the initiation and organization of community centres or associations, block organizations and settlements, and covers the following subjects:

(1) A study of the history of the community, of its physical aspects and its political and social organization.

(2) First steps in community organization including the methods of approach to strategic groups and to strategic individuals to secure co-operation, plans for financial support, organization of the governing body representative of the community, selection of responsible workers, and beginnings of activities.

(3) Community housekeeping, including selection of location and site, building plans, equipment, furnishings and decorations, and care of property.

(4) General management including preparation of budgets, staff organization, committee organization, activity records, office systems and selection, training, and supervision of volunteers.

(5) Co-operation with social, civic and political groups in the community.

(6) Co-operation with the schools, especially in relation to teachers, use of equipment, janitor service, and consideration of school problems such as home visiting, conduct of playgrounds, night schools, school lunches, school libraries, school gardens, etc.

The second semester is given to a study of the kind of activities which may be included in a community centre and settlement program. It devotes some weeks to consideration of the principles of individual education or the so-called community case work corresponding to what is known as social case work. This discussion considers the methods of conducting the first interview and the acquisition of data concerning the individual through school records or other means, the establishment of friendly relations, the assignment of the individual to proper groups and proper positions in the groups, the various means of observation and analysis of ability and character, and the procedure in home visiting. Having completed the study of investigation and analysis of the social qualities and needs of the individual, the course proceeds to consider the plan for personal development through an individual program of activities and relations.

The course next takes up the question of group education or social development of the group and through the group, and deals with the purpose of organization and the methods and procedure of club organization and leadership. It discusses educational courses suited to children (both boys and girls) and to adults (both men and women) and the kinds of classes which may be introduced together with a consideration of necessary equipment and teachers and the principles of maintaining attendance and discipline.

The other subjects considered, include Americanization programmes, types of recreational activity, the study of community art, including pageants, festivals, music, architectural design and city planning, the function of lectures and forums. The course concludes with a discussion of the adaptation of community work to varying community types and conditions, with especial reference to community work in rural districts.

The following courses are open to graduate students by special arrangement:

Criminal Law.

Two hours a week throughout the year.

By special arrangement with the Law School of the University of Pennsylvania students in this department may pursue the course in Criminal Law offered by Dean Mikell at the Law School, Thirty-fourth and Spruce Streets, Philadelphia.

This course may accompany the course in Social Treatment of Delinquents and Defectives (Criminology) and the course in Legal Procedure in Cases involving Women and Children.

Criminal Procedure.

Two hours a week throughout the year.

By special arrangement with the Law School of the University of Pennsylvania students in this department may pursue the course in Criminal Procedure offered by Dean Mikell at the Law School, Thirty-fourth and Spruce Streets, Philadelphia.

This course must be preceded by the course in Criminal Law.

Miss Bezanson offers in each year the following graduate courses:

Industrial Supervision and Employment Management.

Two hours a week throughout the year.

The course presents the problems and methods of personnel administration. It includes, besides the consideration of the organization and functions of personnel departments, such practical problems as the selection of the worker, his physical and mental capabilities, his placement, rating and promotion. Intensive study is devoted to the instability of employees through the proper analysis of labour turnover. Other subjects considered in the course are questions arising in the equipment, technique and conduct of the Federal Employment office or labour exchange, the principles and procedure of factory inspection and the approved methods of supervision of workers in industrial processes. Any outline of the specialized course in Employment must be more or less tentative, as material must needs be brought together from trade and technical magazines, government bulletins, and the experiences and surveys of industrial firms and organizations. The following is a partial outline of the scope of discussion in the course in Industrial Supervision and Employment Management:

I. Employment Management: Function; Scope; Fundamental Problems—Stabilization of Employment.

II. Selecting Employees: Sources of Labour Supply; Applications and Interviews; Tests; Physical Examinations; Job Analysis; Standard Practise.

III. Training and Instruction: For New Employees; For Promotion; For Minor Executive; For Foreman.

IV. Employment Organization: Plan of Organization; Survey of Plant; Employment Office Equipment; Statistical Data; Records.

V. Relations to Workers in the Shops: Follow-up; Health Supervision; Absenteeism and Tardiness; Discipline and Complaints; Shop Committees; Terminations.

VI. Relation to Other Executives: Production Manager; Foremen; Industrial Engineer; Safety Engineer; Sanitary Expert; Fatigue Expert; Service Supervisor; Sales Manager.

VII. Relations with Community: Americanization; Schools; Social Organizations; Social and Industrial Insurance; Industrial Education; Legal Problems; Government Boards; Industrial Housing and Transportation; Industrial Commissions.

The course must be preceded or accompanied by the seminary in Labour Organization or Industrial Organization or the equivalent, and by the seminary in Social Economy including the Practicum in Industrial Supervision and Employment Management.

Advanced Statistics.

Two hours a week throughout the year.

This course attempts to study intensively the subjects of correlation and causation, or the functional relationships between series of facts. The main considerations of the

course are the method of least squares, the theory of linear correlation, skew distribution, partial correlation, and the theory of contingency.

The course must be preceded by the course in Elements of Statistics or its equivalent, and a foundation in mathematics including the Calculus is desirable to facilitate ease in comprehension.

If accompanied by the Special Research in Statistics the course becomes equivalent to a seminary.

Special Problems in Statistics.

Seven hours a week throughout the year.

This course including laboratory analysis and reports is offered in each year in connection with the course in Advanced Statistics and the two courses taken together are equivalent to a seminary.

Miss King will offer in 1920-21 and in each succeeding year the following graduate course:

Community Art.

Two hours a week throughout the year.

A special course will be given in Community Art, to show the methods of developing group expression in music, dramatics, pageantry, dancing, literary expression, architecture, graphic and plastic arts. This course prepares the student of artistic ability to use her best gifts in bringing out the artistic expression of the community. The purposes of educational dramatics, pageant and festivals forms, qualifications of directors, principles of casting, costuming and stage direction are included in the division on community dramatics. In a similar way the movements for community music, civic architecture, writing, painting or sculpture which are spontaneous expressions of the people are included in other divisions of the course.

Dr. Savage offers in each year the following graduate course:

Technical and Advanced Criticism. *Two hours a week during the first semester.*

In this course attention will be given to bibliography, the tabulating of critical data, the planning and writing of papers, reports, and dissertations, critical usage, and other matters. Materials collected for other courses in research are available for use in this work.

Dr. Kingsbury, Miss Bezanson, Dr. Deardorff and Miss Additon conduct in each year the social economy journal club

Social Economy Journal Club. *Two hours once a fortnight throughout the year.*

Current books and articles are reviewed, recent reports, surveys and investigations are criticized, and the results of important research are presented for discussion.

Mr. King offers in each year the following course in English Diction for graduate students:

General Course in Articulation and Voice Production.

One half hour a week throughout the year.

The object of this course is to train speakers in accurate and distinct articulation and to eliminate the faults of bad production. Speech is resolved into its phonetic elements which are made the basis of practical exercises so arranged as to be progressive in their difficulties.

Dr. Potter offers in each year the following graduate course, open to students working in the department:

Social Hygiene.

One hour a week during the first semester.

Dr. Marion Parris Smith conducts in each year the following graduate seminary:

Economic Seminary.

Two hours a week throughout the year.

In 1919-20 the Theories and Problems of Distribution and the agencies in modern social life that effect the distribution of wealth are studied. Special attention is paid to wage problems, profit sharing, various plans for controlling large scale production, land reforms, and income and excess profits taxation.

In 1920-21 Economic Theory and Economic History in the United States from 1790 to 1850 will be studied.

In 1921-22 the Tariff, Currency and Banking in the United States will be the subjects of the seminary.

In 1922-23 the subject of the seminary will be Taxation, Banking and Railroad Finance since 1900.

Dr. Fenwick conducts in each year the following graduate seminary:

Political Seminary.

Three hours a week throughout the year

In 1919-20 Comparative Constitutional Government is the subject of the seminary. The object is to compare and contrast the several forms of constitutional government represented by the United States, Great Britain, France and Germany, together with a study of the new constitutional governments of Russia, Czecho-Slovakia, and China, if proper material be available. Among the questions raised are the location of sovereign power, the authority of the constitution, the restrictions placed by the constitution upon the governing bodies, and the protection afforded by the constitution to the rights of individuals and minorities.

In 1920-21 Constitutional Law of the United States will be the subject of the seminary. The decisions of the Supreme Court of the United States will form the basis of the work. Special stress will be laid upon the relations between the federal and state governments, interstate commerce, and due process of law under the Fourteenth Amendment. Students are required to present brief reports upon assigned cases in the first semester and to prepare a longer report upon a group of cases in the second semester.

In 1921-22 Constitutional Questions Involved in Modern Economic and Social Problems will be the subject of the seminary. The chief economic and social problems of the United States are studied from the point of view of the restrictions placed by the Constitution on the legislative powers of Congress and of the several states in dealing with those subjects. As an introduction the various theories relating to the proper functions of the State are discussed.

Miss Franklin conducts in each year the following seminary:

Seminary in Municipal Government.

Three hours a week throughout the year.

This seminary deals with the structure and functions of modern municipal government. The legal relation of the city to the state, city charters, various types of city government, including the commission and city manager forms, are considered in the early part of the course. A study of modern municipal administration follows, including municipal finance and budgetary problems, city planning, housing, public health and sanitation, franchises and public utilities. The discussion of modern agencies for research in city government is supplemented by practical field work at the Philadelphia Bureau of Municipal Research.

Dr. Leuba conducts in each year the following graduate seminaries:

Psychological Seminary.

Two hours a week throughout the year.

As the foundation of the work of the seminary one or two of the following subjects will be chosen each year: the psychology of mental and moral deficiencies with reference to

the social problems they present, including case studies and research work in problems of delinquency; instinct, feeling, and emotion; the psychology of religion and of ethics; social psychology; abnormal psychology (mental disorders, the Freudian psychology, arrested mental development, and its social and educational implications, etc.).

Seminary in Social Psychology.

Two hours a week during the first semester.

In 1919-20 and again in 1921-22 abnormal psychology, chiefly mental and moral deficiency, and its social implications; or temperament and character, their instinctive and emotional foundation, are the subject of the seminary.

In 1920-21 and again in 1922-23 the principles of social psychology and their applications to social problems are the subject of the seminary.

This seminary is open to students who have pursued an elementary course in psychology. It may be elected separately or may be combined with the seminary in Social and Political Philosophy given in the second semester to count as a seminary in the Department of Social Economy and Social Research.

Dr. Theodore de Laguna conducts in each year the following graduate seminary:

Seminary in Social and Political Philosophy.

Two hours a week during the second semester.

The topics chosen for discussion will vary from year to year. Among them will be such subjects as: the general nature of law; sovereignty and allegiance; the conception of personal liberty; property; punishment; marriage and the family; moral education. This seminary is open to students who have pursued an elementary course in philosophy. It may be elected separately or may be combined with the seminary in Social Psychology given in the first semester to count as a seminary in the Department of Social Economy and Social Research.

Dr. Castro conducts in each year the following graduate seminary:

Seminary in Educational Methods and Measurements.

Two hours a week throughout the year.

The seminary takes up the principles of educational methods and teaching technique. The latter part of the work deals with the theory and practice of educational measurements. The special subjects considered vary from year to year.

Dr. Arlitt conducts in each year the following graduate seminary:

Seminary in Intelligence Tests.

Two hours a week throughout the year.

Laboratory Work in Intelligence Tests.

Four hours a week throughout the year.

The work of the seminary is devoted to a critical survey of the field of mental tests. The laboratory work includes training in the use of tests followed by the practical application of them in schools.

Dr. Rand conducts in each year the following graduate seminary:

Seminary in Applied Psychology.

Two hours a week throughout the year.

Laboratory Work.

Four hours a week throughout the year.

This course combines seminary, laboratory drill and research features, and covers the psychological aspects of mental testing with special application to problems of vocational guidance and to the testing of normal adults, adult and juvenile delinquents and defectives.

In the seminary work, the requirements of mental tests, their standardization and statistical treatment are considered. The laboratory drill work consists of training in the application of general intelligence and diagnostic tests to normal children and adults. This furnishes a standard of the normal reaction to the tests as well as practice in giving the tests. Later the work will be with delinquents and defectives. The research work will be done in connection with Vocational Guidance Bureaus. Two problems will be considered here: (a) the devising and standardizing of specific tests for diagnosing ability for different vocations; and (b) the determination of the average level of intelligence needed to meet the demands of different vocations. The course is open only to graduate students who have had training in experimental psychology.

Special Laboratory Problems in Applied Psychology.

Four hours a week throughout the year.

This course is offered in connection with the course in Applied Psychology to students who wish to pursue more advanced work.

The following advanced undergraduate courses are offered to students in the department:

Dr. Kingsbury offers in each year the following post-major course, open to graduate students:

Social Betterment.

Two hours a week throughout the year.

This course presents the principles and methods used in the Charity Organization Society and the principles of case work are carefully considered and various case records both from the Charity Organization Society and from Home Service experiences are studied in the class. Opportunity to attend case conferences are offered to the students, and observation excursions made to various social institutions and agencies of Philadelphia and the surrounding country. The course includes a survey of the origin, growth, and present methods of the most important social service and social welfare organizations in order to acquaint the student with the fields of activity in which social work is being carried on: (1) social education, through settlements, civic centres or other neighbourhood organizations; (2) improvement of industrial conditions, through associations for labour legislation, labour organizations, or consumers' efforts; (3) vocational guidance, through vocational advising, through placement, or through adjustment of employment; (4) child welfare, through societies for care and protection of children; (5) family care, through organizations for the reduction and prevention of poverty; (6) social guardianship, through the probation work in the juvenile courts or corrective institutions.

Dr. Kingsbury offers in each year the following free elective course open to graduate students:

Record Keeping and Social Investigation.

One hour a week throughout the year.

The object of the course is to acquaint the student with the principles and methods of record keeping and filing which are applicable to municipal, state, and federal offices, to business organizations, and to social organizations and investigation, and with the methods of securing, analyzing, interpreting and presenting social data. The best systems in use will be analyzed and studied. Formulation of the various types of schedules, tabulation of information secured, and the framing of tables are among the subjects considered. The course concludes with a critical study of the methods used in social economic investigations, of sources of social statistical information, and of reports by federal and state departments and by private organizations.

Miss Bezanson offers in each year the following free elective course, open to graduate students:

Elements of Statistics.

One hour a week throughout the year.

This course deals with the elementary principles of statistics and their application. Among the topics are the array, frequency distributions, averages, measures of variation, probability and theory of errors, theory of sampling, index numbers, logarithmic curves, graphic methods, comparisons, and the elements of linear correlation.

The course is recommended to students of social economy and of economics. No knowledge of mathematics beyond the requirements for matriculation is presupposed.

Dr. Marion Parris Smith offers in 1919-20* and again in 1921-22 the following post-major course, open to graduate students:

Economic and Social Legislation in England and America since 1890.

Three hours a week throughout the year.

The first semester is devoted to a review of recent English legislation dealing with trade unions, workmen's compensation, minimum wage, the sweated trades, old age pensions, unemployed, child-welfare, and the land system. In the second semester American legislation on these subjects is reviewed, as well as recent Anti-Trust legislation. Special topics are assigned to students for reports, and attention is given to the use of original source material.

Dr. Marion Parris Smith offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

American Economic and Social Problems.

Three hours a week throughout the year.

The object of this course is to trace certain social movements in the United States from 1865 to the present time. Special studies are made of the changes in rural and urban population; immigration, the race problem; the development of city life; the problems of country life; problems of food distribution and marketing, cost of living, etc. Special topics are assigned to students for reports and attention is given to the use of original source material.

Dr. Marion Parris Smith* offers in each year the following major course, open to graduate students:

History of Economic Thought and Recent Economic Problems.

Five hours a week during the second semester.

The course is divided into two parts: Part I aims to give students an historical introduction as a basis for a critical study of modern economic problems. The students read in connection with this section parts of Adam Smith's *Wealth of Nation*; Ricardo's *Principles of Political Economy and Taxation*; Malthus's *Principles of Population*; and selections from the writings of John Stuart Mill, Jevons, Wicksteed, Boehm-Bawerk, and Pantaleoni.

In Part II certain modern economic problems are considered in some detail: distribution under socialism, co-operation, profit sharing, the minimum wage, the eight-hour day, tax reforms, price fixing, etc. Numerous short papers in connection with the reading, and one long report on some specially assigned subject are required.

* See footnote, page 81.

Dr. Fenwick offers in each year the following major course, open to graduate students:

• Present Political Problems.

Five hours a week during the first semester.

The object of this course is to present the chief political problems that have arisen in recent years. The study of practical problems is preceded by a study of theories relating to the origin and nature of the state, its end or object, and the proper sphere of state activities, under which last heading the various theories of individualism, liberalism, and socialism will be studied. Modern reforms in federal, state, and city government are next studied, and particular stress is laid upon the extension of federal power in the United States and the relation between the Fourteenth Amendment and modern social and economic legislation adopted in the exercise of the police powers of the several states.

Dr. Fenwick offers in each year the following free elective course, open to graduate students:

Elements of Private Law.

One hour a week throughout the year.

The object of the course is to familiarize the student with the principles and technical terms of those branches of private law with which the ordinary citizen is brought into contact. The subjects covered include Persons and Domestic Relations, Contracts, Torts, Real and Personal Property, and the chief forms of Procedure. The lectures are supplemented by a study and discussion of judicial decisions bearing on the subject.

Dr. Rand offers in each year the following major course, open to graduate students:

Applied Psychology.

Five hours a week during the second semester.

The specific applications of psychology form the subject matter of this course. An important feature is the application to the work of the clinic. Demonstrations are made of mental equipment and individual practice is given in mental testing. The applications of psychology to law, medicine, vocational guidance, advertising, etc., are briefly considered. Four hours a week of laboratory work is required from students taking the course. A knowledge of psychology equivalent to that obtained in the minor experimental course is presupposed.

Dr. Ferree and Dr. Rand offer in each year the following minor course:

Experimental Psychology.

Five hours a week during the first semester.

Laboratory Work.

Four hours a week during the first semester.

(Open only to those students who have taken the required course in psychology or its equivalent.)

The lectures constitute an abbreviated course in systematic psychology in which the historical, critical, and theoretical features of the subjects covered are discussed and the experimental features demonstrated. Especial stress is laid on the comparative study of method. The laboratory work consists of individual practice in selected topics.

Dr. Sabin offers in 1919-20 and Dr. Theodore de Laguna offers in 1920-21 the following minor course, open to graduate students:

Elementary Logic and Ethics.

Five hours a week during the first semester.

The equivalent of two hours a week for a semester is devoted to logic and the remainder to ethics. The instruction in logic covers the topics of definition, classification, the inter-

pretation of propositions, the syllogism, the inductive methods, analogy and the use of hypotheses. In the lectures on ethics special attention will be given to the relations between moral standards and the persistent and developing requirements of social organization.

Dr. Leuba offers in each year the following major course, open to graduate students:

Social Psychology: The Psychology of Group Life and the Origin and the Nature of Magic, Religion, Ethics, Science and Art.

Five hours a week during the first semester.

Psychology has so far been concerned almost exclusively with individuals, human or animal, normal or abnormal. But a community, a crowd, a clique, an industrial trust, do not behave as the individuals composing them would behave if they acted independently. For this reason the study of the laws of social interrelation and of social action has become a separate branch of psychology.

Dr. Castro offers in each year the following undergraduate course, open to graduate students:

Education.

Two hours a week throughout the year.

The course interprets modern educational problems from the standpoint of their social setting; develops the psychological principles underlying the technique of teaching and demonstrates their application; sketches the mental, moral, and physical development of children from infancy through adolescence; and discusses the treatment of children individually and in groups in school and extra-school activities.

It is conducted as a general survey course covering the subject-matter indicated, or various topics are stressed and studied more intensively according as the interests of the class vary from teaching to social work or to a more general interest in educational problems

Dr. Arlitt offers in each year the following undergraduate course, open to graduate students:

Experimental Educational Psychology. *Three hours a week throughout the year.*

Laboratory Work.

Two hours a week throughout the year.

In the first semester a study is made of sensori-motor learning, perceptual learning, and learning of the problem-solving type. Particular emphasis is laid on the conditions and methods of efficient study and on the training of memory.

In the second semester the course takes up the study of school subjects from the point of view of laboratory experimentation and a survey of the field of group and individual tests and educational scales and measurements.

Dr. Savage offers in 1919-20 and again in 1921-22 the following free elective course:

The Technique of the Drama.

Two hours a week throughout the year.

This course is open only to those students who can assure the instructor that they can pursue the work with profit. It deals with the making of scenarios, adaptation, and the writing of original longer and shorter plays; and with the observation of dramatic technique in plays read and seen.

Dr. Tennent offers in each year the following free elective course, open to graduate students:

Theoretical Biology.

One hour a week throughout the year.

This is an historical course dealing with the development of the theories of biology. The course is open to students who have had one year's training in science. A considerable amount of assigned reading is required.

Philosophy.

The instruction in this department is under the direction of Dr. Theodore de Leo de Laguna, Professor of Philosophy, Dr. Grace Mead Andrus de Laguna, Associate Professor of Philosophy, and Dr. Ethel Ernestine Sabin, Associate in Philosophy.

GRADUATE COURSES.

A seminary in logic and metaphysics is offered each year and a seminary in ethics and one in the history of philosophy are offered in alternate years. The subjects of study are changed from year to year through a cycle of four years. A seminary in social and political philosophy is offered in the second semester of each year. Ten hours a week of advanced undergraduate courses are also open to graduate students. Students electing philosophy as their major subject for the degree of Doctor of Philosophy may emphasize either metaphysics or ethics. For the list of approved associated and independent minors see the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Theodore de Laguna conducts in alternate years the following graduate seminary:

Ethical Seminary.

Two hours a week throughout the year.

In 1919-20 the subject is Recent French Ethics: Durkheim, Levy-Bruhl, Fouillée, Belot, and Paulhan.

In 1921-22 English Evolutionary Ethics, as exemplified in the writings of Darwin, Spencer, Clifford, Stephen, Alexander, and Hobhouse, and as criticized by Green, Sorley, Huxley, Pringle-Pattison, and Rashdall, will be the subject of the seminary. Special attention is given to the problem of determining the nature and limitations of the genetic method as applied in ethical research.

Dr. Grace de Laguna conducts in alternate years the following graduate seminary:

Seminary in Logic and Metaphysics.

Two hours a week throughout the year.

In 1919-20 the subject of the seminary is English Empiricism. Special attention is paid to its connection with Associationism and to the development of the theory of scientific method.

In 1921-22 Contemporary Realism as represented by Moore, Russell, Alexander, Perry, McGilvary, and Fullerton will be the subject of the seminary.

Dr. Theodore de Laguna conducts in alternate years the following graduate seminary:

Seminary in Logic and Metaphysics. *Two hours a week throughout the year.*

In 1920-21 Inductive and Genetic logic will be the subject of the seminary. The theories of Sigwart, Wundt, Bradley, Bosanquet, Dewey, and Baldwin are the basis of investigation.

In 1922-23 the philosophy of Plato will be discussed in the seminary. Special attention will be paid to the earlier dialogues, to the development of the theory of ideas and the relation of this theory to the teachings and method of Socrates.

Dr. Sabin conducts in alternate years the following graduate seminary:

Seminary in the History of Philosophy. *Two hours a week throughout the year*

In 1920-21 the philosophy of Kant will be the subject of the seminary. The principal writings of the critical period are read and a careful study is made of the final organization of Kant's system in the *Critique of Judgment*.

In 1922-23 Descartes and Spinoza will be studied with special reference to their view of the relation between idea and object.

Dr. Theodore de Laguna conducts in each year the following graduate seminary:

Seminary in Social and Political Philosophy.

Two hours a week during the second semester.

The topics chosen for discussion will vary from year to year. Prominent among them will be: the general nature of law; sovereignty and allegiance; the conception of personal liberty; property; punishment; marriage and the family; moral education.

This seminary may be elected separately, or may be combined with the seminary in Social Psychology, given two hours a week during the first semester, as a seminary for students in the Department of Social Economy and Social Research.

Dr. Theodore de Laguna, Dr. Grace de Laguna, and Dr. Sabin conduct in each year the philosophical journal club.

Philosophical Journal Club.

Two hours once a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent reviews and philosophical articles.

The following advanced undergraduate courses may be attended by graduate students:

Dr. Theodore de Laguna offers in 1919-20 and Dr. Grace de Laguna offers in 1920-21 the following minor course:

History of Philosophy.

Five hours a week during the second semester.

Ancient philosophy is very briefly treated. The greater part of the course is devoted to the discussion of selections from the principal writings of Bacon, Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, and Hume.

Dr. Theodore de Laguna offers in each year the following major course:

Recent Philosophical Tendencies. *Five hours a week during the second semester.*

This course includes a discussion of such theories as pragmatism, idealism, neo-realism, etc.

Dr. Sabin offers in each year the following major course:

From Kant to Spencer.

Five hours a week during the first semester.

The course is principally occupied with the development of the post-Kantian idealism, and with the naturalistic systems of Comte, J. S. Mill, and Spencer.

Dr. Sabin offers in 1919-20 and Dr. Theodore de Laguna offers in 1920-21 the following minor course:

Elementary Logic and Ethics.

Five hours a week during the first semester.

The equivalent of two hours a week for a semester is devoted to logic and the remainder to ethics. The instruction in logic covers the topics of definition, classification, the interpretation of propositions, the syllogism, the inductive methods, analogy and the use of hypotheses. In the lectures on ethics special attention is given to the relations between moral standards and the persistent and developing requirements of social organization.

Psychology.

The instruction in this department is under the direction of Dr. James H. Leuba, Professor of Psychology, Dr. Clarence Errol Ferree, Professor of Experimental Psychology and Director of the Psychological Laboratory, Dr. Gertrude Rand, Associate in Experimental and Applied Psychology, and Dr. Ethel Ernestine Sabin, Associate in Philosophy, Miss Mary Ruth Almack, Assistant Demonstrator in Experimental Psychology, and Miss Istar Alida Haupt, Assistant Demonstrator in Applied Psychology.

GRADUATE COURSES.

Twelve hours of graduate lectures and seminary work are offered in each year in addition to the direction of private reading and original research. Ten hours a week of advanced undergraduate courses are also open to graduate students. The laboratories of experimental psychology are open for research work. Students may offer either Social Psychology or Experimental and Systematic Psychology as a major subject for the degree of Doctor of Philosophy. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

Dr. Leuba conducts in each year the following graduate seminaries:

Psychological Seminary.

Two hours a week throughout the year.

As the foundation of the work of the seminary one or two of the following subjects will be chosen each year: the psychology of mental and moral deficiencies with reference to the social problems they present, including case studies and research work in problems of delinquency; instinct, feeling and emotion; the psychology of religion and of ethics; social psychology; abnormal psychology (mental disorders, the Freudian psychology, arrested mental development, and its social and educational implications, etc.).

Seminary in Social Psychology.*Two hours a week during the first semester.*

In 1919-20 and again in 1921-22 abnormal psychology, chiefly mental and moral deficiency, and its social implications: or temperament and character and their instinctive and emotional foundation will be studied.

In 1920-21 and again in 1922-23 the principles of social psychology and their applications to social problems are the subject of the seminary.

This seminary together with the seminary in Social Philosophy, given in the second semester, may be counted as a seminary by students in the Department of Social Economy and Social Research.

Dr. Ferree conducts in each year the following graduate seminary:

Seminary in Experimental and Systematic Psychology.*Three hours a week throughout the year.*

This seminary is intended, primarily, to give a systematic presentation of the literature of experimental psychology. Due consideration, however, will be given to all points of systematic importance. The work is grouped about the following topics; sensation, the simpler sense complexes, perception and ideas, feeling and the affective processes, attention, action, and the intellectual processes (memory, association, imagination, etc.). The course covers three years; but the topics chosen and the time devoted to each vary from year to year according to the needs of the students.

Psychological Laboratory Work.

The laboratory work consists of individual practice and research.

Dr. Ferree and Dr. Rand conduct in each year the following seminary:

Seminary in Research Methods and Problems.*Three hours a week throughout the year.*

The object of this seminary is to give training in research. In addition to the work in the laboratory supplementary reading, reports and discussions are required. In special cases the course may be elected for a greater number of hours.

Dr. Rand conducts in each year the following seminaries:

Seminary in Applied Psychology.*Two hours a week throughout the year.***Laboratory Work.***Four hours a week throughout the year.*

This course combines seminary, laboratory drill and research features, and covers the psychological aspects of mental testing with special application to problems of vocational guidance and to the testing of normal adults and adult and juvenile delinquents and defectives.

In the seminary work, the requirements of mental tests and their standardization and statistical treatment are considered. The laboratory drill work consists of training in the application of general intelligence and diagnostic tests to normal children and adults. This furnishes a standard of the normal reactions to the tests as well as practice in giving the tests. Later the work is with delinquents and defectives. The research work will be done in connection with Vocational Guidance Bureaus. Two problems will be considered here: (a) the devising and standardizing of specific tests for diagnosing ability for different vocations; and (b) the determination of the average level of intelligence needed to meet the demands of different vocations. The course is open only to graduate students who have had training in experimental psychology.

Seminary in Special Laboratory Problems in Applied Psychology.

Four hours a week throughout the year.

This seminary is offered to students who have attended the seminary in Applied Psychology and wish to pursue more advanced work.

Dr. Leuba, Dr. Ferree and Dr. Rand together conduct in each year the psychological journal club.

Psychological Journal Club.

One hour a week throughout the year.

The advanced students meet with the instructors once a week to hear or read reports on the literature of the subject and on the work done in the laboratory.

The following advanced undergraduate courses may be attended by graduate students:

Dr. Leuba offers in each year the following major and minor courses:

Social Psychology: The Psychology of Group Life and the Origin and the Nature of Magic, Religion, Ethics, Science and Art.

Five hours a week during the first semester.

Psychology has so far been concerned almost exclusively with individuals, human or animal, normal or abnormal. But a community, a crowd, an industrial trust, do not behave as the individuals composing them would behave if they acted independently. For this reason the study of the laws of social interrelation and of social action has become a separate branch of psychology.

The Psychology of Instinct and Emotion, and Animal Behaviour.

Five hours a week during the second semester.

Although the course in animal psychology does not necessitate a special knowledge of biology, yet it appeals to students of that science since it deals with animal behaviour. Time is spent on an analysis of the methods by which animals learn. This part of the course is of special interest to students of education because of the light thrown upon the problems of mental acquisition in man.

Dr. Ferree and Dr. Rand offer in each year the following minor course:

Experimental Psychology.

Five hours a week during the first semester.

Laboratory Work.

Four hours a week during the first semester.

The lectures constitute an abbreviated course in systematic psychology in which the historical, critical, and theoretical features of the subjects covered are discussed and the experimental features demonstrated. Especial stress is laid on the comparative study of methods. The laboratory work consists of individual practice.

Dr. Ferree offers in each year the following elective course:

Advanced Experimental Psychology.

Two hours a week throughout the year.

This course consists of five hours laboratory work a week, the students being assigned problems to investigate.

Dr. Rand offers in each year the following major course:

Applied Psychology.

Five hours a week during the second semester.

Laboratory Work.

Four hours a week throughout the second semester.

The specific applications of psychology form the subject matter of this course. An important feature is the application to the work of the clinic. Demonstrations are made of mental equipment and individual practice is given in mental testing. The applications of psychology to law, medicine, vocational guidance, advertising, etc., are briefly considered.

Education.

This Department is organized in part from the Phebe Anna Thorne Endowment and is connected with the Phebe Anna Thorne Model School.

The instruction in Education is under the direction of Dr. Matilde Castro, Professor of Education and Director of the Phebe Anna Thorne Model School, and Dr. Ada Hart Arlitt, Associate in Educational Psychology.

The work of the Graduate Department of Education is intended for graduate students only. No undergraduate students are permitted to take any graduate work in education although graduate students may if they so desire elect undergraduate courses in education and psychology and other subjects. The courses are planned for graduate students who wish to study education for one, two, and three years on the principle that about one-half of the student's time will be given to purely educational courses and the remaining half to courses in the subjects in which she is preparing herself to teach. The degree of Master of Arts in Education is open to graduates of Bryn Mawr College and of other colleges of high standing under the general conditions prescribed for the degree of Master of Arts. The degree of Doctor of Philosophy in Education is open to graduates of all colleges of high standing under the general conditions prescribed for the degree of Doctor of Philosophy.

The Phebe Anna Thorne Model School.

The Phebe Anna Thorne School opened in the autumn of 1913 under the direction of the Bryn Mawr College Graduate Department of Education. It is maintained by an endowment of one hundred and fifty thousand dollars given by the executors

of the estate of the late Phebe Anna Thorne to perpetuate her deep interest in school education and her desire to further research in the best methods of teaching school subjects. The Phebe Anna Thorne School is an integral part of the Graduate Department of Education and affords its students an opportunity to follow the work of the expert teachers of the model school and discuss in seminars conducted by the professors of education the various problems of teaching and administration as they arise from day to day. Pupils are admitted to the primary department at six years of age and to the elementary course at nine or ten years of age and will be fitted to enter Bryn Mawr and other colleges in the completion of a seven or eight years' school course based on the soundest available theory and practice of teaching to be found in this country or abroad. It is believed that the opportunity of studying the newest approved methods of secondary teaching will enable teachers who have studied in the Graduate Department of Education to teach more efficiently and to command materially higher salaries.

GRADUATE COURSES.

In addition to four seminars in education, and a seminary in the study of children there are offered in each year observation classes in the Phebe Anna Thorne Model School. The Department of Education also conducts an Educational Clinic in which examinations are made and advice given in regard to cases of retardation in special school subjects, general retardation or any other maladjustment to school environment. Students electing education as their major subject for the degree of Doctor of Philosophy may elect educational psychology, educational methodology, economics, social economy, social psychology, or experimental and systematic psychology, as the associated minor. The list of approved independent minors will be found in the Regulations of the Academic Council.

Dr. Castro conducts in each year the following graduate seminars:

Seminary in Educational Methods and Measurements.

Two hours a week throughout the year.

The seminary takes up the principles of educational methods and teaching technique. The latter part of the work deals with the theory and practice of educational measurements. The special subjects considered vary from year to year.

Seminary in Educational Psychology. *Two hours a week throughout the year.*

The seminary considers the main categories of educational psychology and studies especially the psychology of school and high school subjects. If the student's training in psychology has been inadequate she is required to take the seminary in Educational Methods and Measurements either as a preliminary seminary or by special permission at the same time.

Seminary in Social Education. *Two hours a week during the second semester.*

The essentials of educational theory and practice for social workers are studied in this seminary. The subjects dealt with serve as an introduction to the educational principles involved in the intelligent direction of such activities as community centres, settlement classes, clubs, etc. Among the subjects studied are the characteristic mental and physical development of childhood, adolescence, youth, and maturity. This study is used as a basis for the selection of the educational materials and methods appropriate to the needs and capacities of different groups of varying ages and differing educational opportunities.

Dr. Castro and Dr. Arlitt conduct in 1920-21 and in each succeeding year the following graduate seminary:

Seminary in Research Problems in Educational Psychology. *Two hours a week throughout the year.*

Laboratory Work. *Four hours a week throughout the year.*

This seminary is open only to candidates for the degree of Doctor of Philosophy.

Dr. Arlitt conducts in each year the following graduate seminary:

Seminary in Intelligence Tests. *Two hours a week throughout the year.*

Laboratory Work in Intelligence Tests. *Four hours a week throughout the year.*

The work of the seminary is devoted to a critical survey of the field of mental tests. The laboratory work includes training in the use of tests followed by the practical application of them in schools.

Dr. Castro and Dr. Arlitt together conduct the journal club.

Journal Club in Education. *Two hours once a fortnight throughout the year.*

The advanced students meet with the instructors once a fortnight to report on and discuss recent reviews and articles, and the results of special investigations are presented for comment and criticism.

In addition to the above courses the following courses in education and in other departments are adapted to the needs of graduate students in the department of education:

Dr. Castro offers in each year the following undergraduate course, open to graduate students:

Education. *Two hours a week throughout the year.*

The course interprets modern educational problems from the standpoint of their social setting; develops the psychological principles underlying the technique of teaching and demonstrates their application; sketches the mental, moral, and physical development of children from infancy through adolescence; and discusses the treatment of children individually and in groups in school and extra-school activities.

It is conducted as a general survey course covering the subject-matter indicated, or various topics are stressed and studied more intensively according as the interests of the class vary from teaching to social work or to a more general interest in educational problems.

Dr. Arlitt offers in each year the following undergraduate course, open to graduate students:

Experimental Educational Psychology. *Three hours a week throughout the year.*

Laboratory Work. *Two hours a week throughout the year.*

In the first semester a study is made of sensori-motor learning, perceptual learning, and learning of the problem-solving type. Particular emphasis is laid on the conditions and methods of efficient study and on the training of memory.

In the second semester the course takes up the study of school subjects from the point of view of laboratory experimentation and a survey of the field of group and individual tests and educational scales and measurements.

Classical Archæology.

The instruction in this department is under the direction of Dr. Rhys Carpenter, Professor of Classical Archæology and Dr. Mary Hamilton Swindler, Instructor in Latin and Archæology.

An archæological seminary of two hours a week and graduate courses amounting to three hours a week throughout the year are offered to graduate students who have done elementary archæological work, and also a journal club meeting one and a half hours a fortnight. In addition individual students will be directed in special work by means of private conferences.

Undergraduate courses of three hours a week and two hours a week are offered, affording an introduction to the various branches of classical archæology. The undergraduate courses are fully illustrated with lantern-slides, and photographs are available for review and comparison. In connection with graduate courses the students have access to the collections belonging to the department containing replicas of Greek and Roman coins, facsimiles of gems and seals, and a collection of original vase fragments, many of which are by known masters.

GRADUATE COURSES.

A seminary in archæology and a journal club in archæology are offered to graduate students in addition to the undergraduate courses which are open also to graduate students. A good reading knowledge of both French and German is indispensable, and familiarity with both Greek and Latin, though not required, is of the utmost value for graduate work in archæology.

Students electing classical archæology as a major subject for the degree of Doctor of Philosophy must have taken the major undergraduate course in Greek and the minor undergraduate course in Latin or courses equivalent to these. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Carpenter conducts in each year the following graduate seminary:

Archæological Seminary.

Two hours a week throughout the year.

This course is open only to graduate students who have had some previous training in classical archæology. The order of the subjects may be changed in accordance with the needs of the students.

In 1919-20 Greek architecture is studied.

In 1920-21 fifth century Greek sculpture will be the subject of the seminary in the first semester, and fifth century Greek vases in the second semester.

In 1921-22 Greek minor arts (coins, gems, terra-cotta) will be studied.

In 1922-23 Greek Architecture will be studied in the first semester, and Roman architecture in the second semester.

Dr. Carpenter offers in 1920-21 and in each succeeding year the following graduate course:

Greek Epigraphy.

One hour a week throughout the year.

In the first semester the origin of the Greek alphabet and the epichoric forms are studied. Roehl's *Imagines* and Part I of Robert's *Introduction to Greek Epigraphy* are used as textbooks. In the second semester a variety of inscriptions of artistic and topographic interest are read. The emphasis is archæological rather than linguistic or politico-historical.

Dr. Swindler offers in each year the following graduate courses:

Ægæan Archæology with emphasis on the recent discoveries in Crete.

Two hours a week during the first semester.

Ancient Painting.

Two hours a week during the second semester.

The work includes a detailed survey of Cretan frescoes, painted plaques, stelæ, and sarcophagi, Greek vases of the Polygnotan era, paintings found in Etruscan tombs, Pompeian wall decoration and the mummy portraits from the Fayûm.

Dr. Carpenter and Dr. Swindler together conduct in each year the archæological journal club:

Archæological Journal Club. *One and a half hours a fortnight throughout the year.*

The graduate students and the instructors meet for the presentation and discussion of topics of current archæological literature.

The following undergraduate courses may be attended by graduate students:

Dr. Carpenter offers in each year the following minor and major courses open to graduate students:

Greek Sculpture.

Three hours a week throughout the year.

A critical study of the rise, perfection, and ultimate developments of sculpture in Greece. The course is intended as a general introduction to the principles and appreciation of sculpture.

Art and Life in Hellenistic Towns.

Two hours a week during the first semester.

A reconstruction, from existing remains, of town and city life in the period between the death of Alexander the Great and the Roman domination.

Ancient Architecture.

Three hours a week throughout the year.

An introductory outline of Egyptian, Cretan, and Mycenaean building is followed by a detailed study of the principles and practice of architecture in Greece and Rome. The course ends with a brief survey of Byzantine, Renaissance, and present-day classical styles. Emphasis is laid on architectural evolution and its connection with the civilization of the times.

Greek and Roman Minor Arts.

Two hours a week during the second semester.

The course treats of Greek and Roman bronze statuettes, terra-cotta figurines, coins, gems, jewelry, silverware, and similar objects, mainly for their artistic and cultural interest. The first six lectures deal with Cretan and Mycenaean art. This course supplements that on Greek vase-painting given in the first semester.

Dr Wright offers in each year the following free elective courses, open to graduate students:

Greek Religion and Greek Myths.

Two hours a week during the first semester.

This course is supplementary to Greek and English literature and to Oriental and Classical Archæology, and treats of the development of Greek religion, the attributes of the Olympian Gods, such as Zeus and Apollo, their ritual, and the influence on literature of Greek myths. This course may be offered as part of the minor course in Classical Archæology.

Literary Geography of Greece and Asia Minor.

Two hours a week during the second semester.

This course traces not only the literary legends of famous sites such as Athens, Thebes, Troy and Constantinople, but also their political history. It may be offered as part of the minor course in Classical Archæology.

Dr. Swindler offers in each year the following minor and major courses:

Ancient Painting and Vases.

Two hours a week during the first semester.

The course traces the development of ancient painting. The material studied includes Egyptian and Cretan frescoes, Greek vases, Pompeian wall paintings, and the paintings from Etruscan sites.

Ancient Rome.

Two hours a week during the second semester.

The course deals with the art and material civilization of Rome through Republican and Imperial times. It is intended both as an archæological background to Latin studies and as an introduction to Roman art, especially sculpture and painting. The course includes a study of Etruscan art and its influence on early Rome.

History of Art.

The instruction in this department is under the direction of Miss Georgiana Goddard King,* Professor of the History of Art, Dr. Arthur Edwin Bye, Lecturer in the History of Art, and Miss Helen Fernald, Instructor and Demonstrator in the History of Art.

* Granted leave of absence for the year 1919-20. The courses announced by Professor King are given during her absence by Dr. Bye.

GRADUATE COURSES.

A seminary in History of Art of two hours a week throughout the year is offered to graduate students who have done elementary work in history of art.

In addition to the graduate seminary announced, other courses will be provided as need for them arises, and individual students will be directed in special work by means of private conferences. History of Art may be offered as a minor for the degree of Doctor of Philosophy. A list of major subjects with which it may be offered will be found in the Regulations of the Academic Council.

Miss King* conducts in each year the following graduate seminary:

Seminary in History of Art.

Two hours a week throughout the year.

In 1919-20* the subject of the seminary is Mediæval Art from the sixth to the sixteenth centuries.

In 1920-21 the subject will be Spanish Painting after 1550.

In 1921-22 the subject will be the Theory and Practice of Connoisseurship. The Morel-lan method will be examined and appraised, the value of documentary evidence discussed, and the different conditions affecting the study of different schools considered. Students will have access to a large collection of photographs and several private collections of paintings.

In 1922-23 the subject is Modern Art from the commencement of the romantic movements to the contemporary theories. Students are expected to be familiar already with the Old Masters, and to read French and German. Arrangements will be made for trips to Philadelphia and New York to study new pictures.

The arrangement of these subjects may be changed in accordance with the needs of the students.

Miss King and Miss Fernald together conduct in each year the journal club in the history of art.

Journal Club in the History of Art. *Two hours once a fortnight throughout the year.*

The instructors and the graduate students meet for the presentation and discussion of current literature on the History of Art.

POST-MAJOR COURSES.

Miss King* offers in 1919-20 and again in 1921-22 the following post-major course, open to graduate students:

Modern Painting.

Three hours a week throughout the year.

This course is open only to students who have completed the minor and major work in history of art or its equivalent. It deals with the history of painting since 1800 and comes down to the present year. Students are expected to make trips to Philadelphia and the neighbourhood to study pictures as often as may seem necessary.

Miss King offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

* See footnote, page 110.

Spanish Painting.

Three hours a week throughout the year.

This course is open only to students who have completed the minor and major work in history of art, or an equivalent course. The sources and development of Spanish painting are considered from the early miniature painters down to living painters. Students are expected to learn something about the Spanish character and history and to make short trips to see paintings on exhibition in America.

The following undergraduate courses may be attended by graduate students:

Miss King* offers in each year the following minor and major courses:

Italian Painting of the Renaissance from the Middle of the Thirteenth to the Middle of the Sixteenth Century. *Three hours a week throughout the year.*

In the first semester the Italian Primitives are studied, chiefly in the schools of Florence, Siena, and Umbria; in the second semester the painters of the High Renaissance, with special attention to those of Venice and the north of Italy. The course is illustrated with photographs and lantern slides.

Gothic Architecture.

Two hours a week throughout the year.

The first semester is devoted to Romanesque and pointed architecture in Italy and Germany, with special attention to the introduction of Gothic into Italy by the Cistercians, and the second semester to the development of Gothic in France and Spain with parallels from English ecclesiastical architecture. The course is illustrated with photographs and lantern slides.

Renaissance Sculpture.

Two hours a week throughout the year.

The first semester is devoted to the sculpture of the Italian Renaissance, the second chiefly to Northern art, and in especial to figure sculpture in France from the finishing of the Cathedrals to the close of the Renaissance. The great sculptors of Germany and Spain will be studied carefully in conclusion. The course is illustrated with photographs and lantern slides.

Miss Fernald offers in each year the following major and elective courses:

Painting in the Seventeenth and Eighteenth Centuries.

Three hours a week throughout the year.

In the first semester the Flemish, Dutch, and German painters are studied, in the second semester the French, Spanish, and English. The course is illustrated with photographs and lantern slides.

Chinese and Japanese Art.

Two hours a week throughout the year.

The aim of the course is to give a comprehensive view of the art of China and Japan from the most ancient bronzes of China to the late school of Japanese colour prints. Emphasis, however, will be laid upon painting, especially the great art of the T'ang and Sung dynasties in China, which is taken up in the first semester. In the second semester painting in Japan is considered, with special attention to the work of Sesshiu and his followers, that of the Kano and Korin schools, and to the school of Japanese colour prints. It is illustrated with photographs, Shimbi Shoin reproductions, and also some originals.

* See footnote, page 110.

Miss King offers in 1920-21 the following free elective course, open to graduate students:

Minor Arts of the Middle Ages.

Two hours a week throughout the year.

The lectures deal, in succession, with ivories, miniatures, enamels, stained glass, metal work, wood-carving and architectural sculpture, from the decline of Roman art until the beginning of the Renaissance. Photographs and other reproductions are provided for study and reference is made to pieces in museums and other collections accessible during the college year and in vacations. Students electing the course are expected to read at least one foreign language.

Miss King offers in 1922-23 the following free elective course, open to graduate students:

Renaissance Architecture.

Two hours a week throughout the year.

The architecture of the Italian Renaissance is studied in the first semester, that of France, Germany, Spain and England in the second semester. Lantern slides and photographs are used for illustration.

Mathematics.

The instruction in this department is under the direction of Dr. Charlotte Angas Scott, Professor of Mathematics, and Dr. Anna Pell, Associate Professor of Mathematics.

GRADUATE COURSES.

The graduate courses consist of lectures and seminary work supplemented by private reading under the direction of the instructors, the courses being arranged each year with reference to the wishes and degree of preparation of the students concerned. Students who elect mathematics as a major subject for the degree of Doctor of Philosophy are required to elect mathematics also as an associated minor. The list of approved independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Scott conducts in each year the following graduate seminary:

Mathematical Seminary.

Two hours a week throughout the year.

In 1919-20 Theory of Surfaces and Space curves is the subject of the seminary. The subject is treated from the projective (analytical) point of view without any consideration of the development of differential geometry. The work of the first semester deals with the general theory; detailed investigations of different classes of curves are reserved for the second semester.

In 1920-21 Differential Geometry of Curves and Surfaces will be studied in the seminary. While Eisenhart's book will be taken as a guide it is expected that the work will be connected with that of Darboux.

In 1921-22 Topology of Plane Algebraic Curves will be the subject of the seminary. Seminary work in Transcendental Curves will be offered if needed.

Dr. Pell conducts in each year the following graduate seminary:

Mathematical Seminary.

Two hours a week throughout the year.

In 1919-20 Theory of Functions of a Complex Variable including Riemann's surfaces and elliptic functions is the subject of the seminary.

In 1920-21 the Theory of Linear Differential Equations will be taken up including existence theorems, properties of solutions, boundary value, oscillation and expansion problems.

In 1921-22 Calculus of Variations and Integral Equations will be studied.

Dr. Scott and Dr. Pell together conduct the journal club.

Mathematical Journal Club.

One hour a fortnight throughout the year.

The journal club holds fortnightly meetings at which reports on special topics or memoirs are presented by the instructors and the graduate students.

POST-MAJOR COURSES.

The post-major courses in mathematics are designed to bridge over the interval between the ordinary undergraduate studies and advanced work. They deal, therefore, with the subjects of the major courses carried to higher developments and treated by higher methods. As the order of mathematical studies differs in different colleges, graduate students frequently find it advisable to devote a part of their time to these courses. Regular written work is expected from all mathematical students, and a reading knowledge of French and German is presupposed.

The post-major courses in any one year amount to five hours a week. The courses given are the following with occasional modifications:

Dr. Scott offers in 1919-20 the following post-major course, open to graduate students:

Lectures on Modern Pure Geometry.

Two hours a week throughout the year.

Dr. Scott offers in 1920-21 the following post-major course, open to graduate students:

Special Topics in Geometry.

Two hours a week throughout the year.

Lectures on special topics in geometry, such as homogeneous coordinates, circular coordinates, families of curves, certain transcendental curves, geometrical transformations, etc.

Dr. Scott offers in 1921-22 the following post-major course, open to graduate students:

Modern Analytical Geometry.

Two hours a week throughout the year.

Lectures introductory to modern analytical geometry, in connection with Salmon's *Conic Sections* and Scott's *Modern Analytical Geometry*.

Dr. Pell offers in 1919-20 the following post-major courses, open to graduate students:

Theory of Functions of a Complex Variable.

Two hours a week throughout the year.

Differential Equations, Ordinary and Partial.

One hour a week throughout the year.

Dr. Pell offers in 1920-21 the following post-major courses, open to graduate students:

General Course in Analysis.

Two hours a week throughout the year.

This course deals with the development of subjects such as determinants, infinite series, Fourier series, definite integrals, etc.

Elementary Theory of Numbers.

One hour a week throughout the year.

Dr. Pell offers in 1921-22 the following post-major courses, open to graduate students:

Lectures Introductory to Modern Algebra.

Two hours a week throughout the year.

The properties of polynomials, linear dependence, elimination, transformations, invariants, and canonical forms are discussed.

Calculus of Finite Differences and Theory of Probabilities.

One hour a week throughout the year.

FREE ELECTIVE COURSES.

Dr. Scott offers when the time of department permits the following free elective courses open to graduate students:

Graphical Mathematics.

One hour a week throughout the year.

The course deals with statistical work, probability, and theory of errors. It is recommended to students of economics as well as to students of physics. No knowledge of mathematics beyond the requirement for matriculation is presupposed.

Fundamental Theorems of Algebra and Geometry.

One hour a week throughout the year.

Certain standard problems of historical interest are considered in order to elucidate some of the fundamental principles of mathematics. Either semester may be taken separately. No knowledge of mathematics beyond the requirement for matriculation is presupposed. It is hoped that the work will prove useful to those intending to teach elementary mathematics.

SCIENCE.

Physics, Chemistry, Geology, Biology.

Professors and instructors: Dr. Florence Bascom, Dr. William B. Huff, Dr. David Hilt Tennent, Dr. James Barnes, Dr. Roger Frederic Brunel, Dr. James Llewellyn Crenshaw,

Dr. Sumner Cushing Brooks, Mr. Malcolm Havens Bissell, Miss Sue Avis Blake, Miss Mary Jane Guthrie, and Miss Gertrude Williams.

In January, 1893, the Trustees opened Dalton Hall, a large building, containing ample laboratories, lecture-rooms, research-rooms, special libraries, and professors' rooms for the work of the scientific departments. The chemical, geological, biological, and physical laboratories and the laboratory for experimental psychology are open for students from nine to six daily.

The chemical department includes a lecture-room, a large laboratory for the first-year students, and several smaller ones for advanced and special work, a special room for physical chemistry, preparation and balance rooms, and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purpose of instruction and research, and is increasing from year to year. The chemical library contains, besides necessary treatises and reference books, complete sets of the most important chemical journals.

The geological department is equipped with large collections of minerals, rocks, and fossils, a carefully selected library, and laboratories furnished with maps, models, charts, lantern slides, petrologic microscopes, goniometers, and other apparatus necessary for work in undergraduate and graduate courses.

The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with apparatus for the study of experimental physiology.

The physical laboratories are carefully furnished with the apparatus necessary for thorough work.

Graduate work in the natural sciences is highly specialized, and consists of laboratory work, private reading, and special investigations pursued by the student under the guidance of the instructors.

Physics.

The instruction in this department is under the direction of Dr. William B. Huff, Professor of Physics, Dr. James Barnes, Professor of Physics, and Miss Sue Avis Blake, Demonstrator in Physics.

GRADUATE COURSES.

The graduate seminars consist of lectures, laboratory work, and original research under the direction of the instructors, the lecture courses varying from year to year so that they may be pursued by students through consecutive years. A good working library containing the current and bound numbers of all the important physical journals is kept in the laboratory. Students electing physics as their major subject for the degree of Doctor of Philosophy may elect it also as the associated minor, provided either mathematics or applied mathematics is taken as the independent minor; or mathematics or applied mathematics may be taken as the associated minor. A list of approved independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Huff conducts in 1920-21 the following graduate seminary:

Mathematical Theory of Electricity and Magnetism.

Three hours a week throughout the year.

The lectures are based on Maxwell's standard work, and include a general account of the later development of the theory.

Dr. Huff conducts in 1922-23 the following graduate seminars:

Radioactivity and Discharge of Electricity through Gases.

Three hours a week during the first semester.

The earlier lectures treat of the effect of fields on the path of a moving charged particle. A discussion of typical experimental methods of measuring velocity and the ratio of charge to the mass follows. After a study of the phenomena of electrical discharge and of radioactivity a brief account of theories is given.

Electron Theory.

Three hours a week during the second semester.

The mathematical development of the subject is presented in the lectures, with special reference to experimental tests of theory.

Dr. Barnes conducts in 1919-20 the following graduate seminary:

Physical Optics.

Three hours a week throughout the year.

This course gives a general mathematical discussion of physical optics. Students are expected to give detailed reports on the methods and results of investigations which illustrate the theory. When it seems desirable two and a half hours of experimental work will be substituted for one hour of the lecture course.

Dr. Barnes conducts in 1921-22 the following graduate seminary:

Thermo-dynamics and Radiation.

Three hours a week throughout the year.

The modern developments of thermo-dynamics and radiation including X-rays and photo-electricity are considered. Attention is paid to the application of the laws of thermo-dynamics in physical chemistry.

Dr. Huff and Dr. Barnes together conduct the journal club, and the laboratory work.

Physical Journal Club.

One hour a week throughout the year.

The advanced students meet with the instructors once a week to hear or read papers on assigned topics in physics.

Laboratory work.

The laboratory work is arranged for the purpose of familiarizing the student with the methods of research; the student begins by repeating methods and investigations of well-known experimenters, with any modifications that may be suggested, passing on to points of investigation left untouched by previous experimenters, and finally to the study of new methods and the prosecution of original research. Students taking physics as their chief subject for the degree of Doctor of Philosophy are expected to spend all the time possible in the laboratory. In the basement there is a constant-temperature vault designed for accurate comparison of lengths, etc., and the laboratory is provided with special rooms for magnetic, optical, and electrical work. A well-equipped shop and trained mechanics make it possible to have special forms of apparatus constructed which are needed in research work.

POST-MAJOR COURSES.

Dr. Huff offers in 1919-20 the following post-major courses, open to graduate students:

Properties of Matter.

Three hours a week during the first semester.

The lectures cover the general subject of the properties of matter studied from the point of view of the Molecular Theory. The different theories of matter are discussed and an account of recent investigations concerning the relations of matter and electricity is given. Poynting and Thomson's *Properties of Matter* is read in connection with the course.

Theory of Sound.

Three hours a week during the second semester.

The lectures form an introduction to the theory of modes of vibration of pipes, strings, and rods. The theory of music and of musical instruments is then studied. Poynting and Thomson's *Sound* is used during the earlier part of the course, and frequent references are made to Helmholtz and Rayleigh.

Dr. Huff offers in 1921-22 the following post-major course, open to graduate students:

Electricity and Magnetism.

Three hours a week throughout the year.

The lectures of this course treat typical mathematical and experimental problems chosen from the various parts of the entire subject. A large number of problems on potential and attraction are assigned.

Dr. Barnes offers in 1920-21 the following post-major course, open to graduate students:

General Optics.

Three hours a week throughout the year.

These lectures give a general discussion of the theories advanced to explain many phenomena in light. Students are required to have a good knowledge of elementary optics and to be sufficiently familiar with optical apparatus to undertake a detailed study of some special problem.

Dr. Barnes offers in 1922-23 the following post-major courses, open to graduate students:

Spectroscopy.

Three hours a week during the first semester.

The course begins with a complete discussion of the apparatus used in this subject; the results of past and present investigations are then considered, and problems for investigation are pointed out. The many important applications of spectroscopy to astronomy are not neglected. The standard book of reference is Kayser's *Handbuch der Spectroscopie*. Detailed reports of laboratory investigations are required.

Astrophysics.

Three hours a week during the second semester.

This course consists of lectures on the application of physical principles and methods to the study of the composition, structure, and motions of the heavenly bodies. Selected chapters in Moulton's *Celestial Mechanics* and many papers from the *Astrophysical Journal* will be read and discussed.

FREE ELECTIVE COURSE.

Dr. Huff offers in 1919-20 the following free elective course, open to graduate students:

Historical Development of Physics.

One hour a week throughout the year.

The work of this course consists of lectures, required reading, and class-room discussions. The lectures give an elementary presentation of some of the more important ideas and results of physics. The reading is intended to supplement the lectures and to provide additional material for general discussion. The course is open to students who have taken a minor course in science or its equivalent.

Dr. Huff offers in 1920-21 the following free elective course, open to graduate students:

Physical Basis of Music.

One hour a week throughout the year.

In the lectures of this course it is planned to present some of the physical principles illustrated in the construction of musical instruments and underlying the general theory of music. Private reading will be assigned.

Chemistry.

The instruction in this department is under the direction of Dr. Roger Frederic Brunel, Professor of Chemistry, Dr. James Llewellyn Crenshaw, Associate Professor of Physical Chemistry, and Miss Gertrude Williams, Demonstrator in Chemistry.

GRADUATE COURSES.

The advanced courses in chemistry consist of lectures upon inorganic, organic, and physical chemistry, seminary work, reports upon current chemical literature, and laboratory exercises. In the laboratory work the students are required to become familiar with the literature bearing upon the subjects they are studying, and it is therefore necessary for them to have a reading knowledge of French and German.

The lecture courses are varied from year to year to meet the requirements of students and to form a consecutive course for those who wish to make chemistry the major subject in the examination for the degree of Doctor of Philosophy. Such students may specialize either in organic chemistry under the direction of Dr. Brunel, or in physical or inorganic chemistry under the direction of Dr. Crenshaw, but students who elect organic chemistry as the major subject of examination must take physical chemistry as the associated minor, and students who elect physical chemistry as the major subject, must take organic chemistry as the associated minor.

No undergraduates are admitted to graduate courses.

Dr. Brunel conducts in each year the following graduate seminary:

Chemical Seminary, Organic Chemistry. *One hour a week throughout the year.*

This seminary is intended primarily for students who are carrying on research in organic chemistry, and consists of reports on assigned topics which are usually related to the research in which the student is engaged.

Dr. Crenshaw conducts in each year the following graduate seminary:

Chemical Seminary, Inorganic Chemistry.

One hour a week throughout the year.

The work of the seminary consists of lectures, required reading, and reports on various topics. The needs of the individual students are considered in selecting the subjects for discussion.

Dr. Brunel offers in each year the following graduate course:

Advanced Organic Chemistry.

One hour a week throughout the year.

Lectures, reading, and occasional reports cover the historical developments and present status of subjects of current interest. In the year 1919-20 a considerable part of the time is spent upon the carbohydrates.

Students counting this course as the equivalent of a seminary are required to do enough laboratory work to make the work of the course occupy fourteen hours a week. The nature of this work depends so largely on the past training of the student that no definite statement can be made regarding it. A sufficiently advanced student may be assigned a problem to investigate.

Dr. Crenshaw offers in each year the following graduate course:

Physical Chemistry.

Two hours a week throughout the year.

In the lectures no attempt is made to give a general survey of the subject but certain selected portions of the science are treated in detail and the student is made familiar with problems of current interest. Students counting this course as the equivalent of a seminary will be required to do enough laboratory work to make the work of the course occupy fourteen hours a week. The laboratory work will consist of physico-chemical research.

Dr. Brunel and Dr. Crenshaw together conduct the journal club.

Chemical Journal Club.

One hour a week throughout the year.

The advanced students, with the instructors, meet to hear reports and discussions on recent scientific articles.

POST-MAJOR COURSES.

Dr. Brunel offers in each year the following post-major course, open to graduate students:

Organic Chemistry.

Two hours a week throughout the year.

The course consists of lectures, assigned reading with occasional reports, and laboratory. It is intended to broaden the student's acquaintance with the subject and to serve as an introduction to the study of present day chemical problems.

At least four hours of laboratory work a week will be required, three hours' credit being given for the course. The laboratory work will consist of the preparation of compounds, organic analysis, and study of the methods for determining the constitution of organic compounds.

Dr. Crenshaw offers in each year the following post-major course, open to graduate students:

Physical Chemistry.

Two hours a week throughout the year.

The aim of the lectures is to extend the student's knowledge of physical chemistry and to lay a foundation for independent work on this subject. The lectures are supplemented by assigned reading and reports intended to give a general outline of the subject. The solution of a large number of problems will be required.

The laboratory work amounting to four and a half hours a week is designed to prepare the students for physico-chemical research.

Dr. Crenshaw offers in each year the following post-major course, open to graduate students:

Inorganic Chemistry.

One hour a week throughout the year.

Selected topics in inorganic chemistry are discussed in detail and parallel reading is required. In the laboratory work of four and a half hours a week advanced quantitative analyses are included.

Geology.

The instruction in this department is under the direction of Dr. Florence Bascom, Professor of Geology and Mr. Malcolm Havens Bissell, Instructor in Geology.

The instruction offered in geology includes, in addition to the minor and major courses, three free elective courses of two hours and one hour a week, four post-major courses of two and three hours a week open only to graduates and to undergraduates that have completed the major course in geology, and two graduate seminars of three hours a week.

Post-major courses in petrography or mineralogy, economic geology, stratigraphy, and paleontology are offered in each year, and are designed to train the student in exact methods for the determination of rock and mineral species, in the genesis of ores, and in the principles of stratigraphy and paleontology. They are an essential preliminary to research work in the science.

Excellent illustrative material for the graduate and undergraduate courses is furnished by the geological and paleontological collections of the college, including the Theodore D. Rand rock and mineral collection, which alone contains over 20,000 specimens, by the private collections of the instructors, and by material lent by the United States Geological Survey; the department is also fortunate in its proximity to the museum of the Academy of Natural Sciences of Philadelphia; within easy reach of the college there are excellent collecting fields for fossil, mineral, and rock specimens.

GRADUATE COURSES.

The seminary in petrology and crystallography should be preceded by the major and post-major courses or their equivalents and is intended primarily for graduate students wishing to make inorganic geology a major subject for the degree of Doctor of Philosophy. The graduate seminary in crystallography is also intended to meet the needs of graduate students in chemistry who wish to make crystallography a minor subject for the degree of Doctor of Philosophy. The graduate seminary in physiography is designed primarily for graduate students wishing to make physiography a major subject for the degree of Doctor of Philosophy. Further graduate seminars in petrology and physiography will be arranged to suit the requirements of candidates for the degree of Doctor of Philosophy and research problems will be assigned.

Students may specialize either in petrology and crystallography, under the direction of Dr. Bascom, or in stratigraphic geology and physiography, under the direction of Mr. Bissell, but students who make inorganic geology the major subject of examination must take either physiographic geology, inorganic chemistry, or crystallography as the associated minor and students who elect physiographic geology as the major subject must take either inorganic geology or biology as the associated minor. A list of approved independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to the graduate courses.

Dr. Bascom conducts in each year the following graduate seminary:

Petrology and Crystallography.

Three hours a week throughout the year.

This seminary is conducted by means of informal discussions, required reading, laboratory work, and formal reports. The selection of subjects in petrology is dependent upon the needs of the individual students and is varied from year to year. In crystallography direction is given in crystal measurement with the two-circle goniometer, in crystal projection, and crystal drawing. The seminary involves as much laboratory work as the time of the student permits.

Mr. Bissell conducts in each year the following graduate seminary:

Seminary in Physiography.

Three hours a week throughout the year.

A broad study of the physiographic cycle forms the basis of this course. The general principles governing the development of land forms are applied to various physiographic types, and the evolution of surface features under the control of climate and geologic structure is studied in considerable detail. This is followed by a study of definite regions illustrating the application of physiographic principles to problems of structural, economic and stratigraphical geology. Lectures, outside reading, reports, map work and field excursions are the methods of instruction. Research problems are taken up if time permits.

Dr. Bascom and Mr. Bissell together conduct the journal club.

Geological Journal Club.

Two hours once a fortnight throughout the year.

The graduate students and the instructors meet for the presentation and discussion of recent investigations or recent geological literature.

POST-MAJOR COURSES.

Dr. Bascom offers in 1919-20 and again in 1921-22 the following post-major course, open to graduate students:

Petrography.

Three hours a week throughout the year.

During the first semester the lectures deal with the principles of optical crystallography, the optical means of mineral determination, and the petrographic characters of rock-forming minerals. In the second semester the textures, constitution, origin, geographic distribution, and geologic associations of igneous rocks are treated; practice is given in the quantitative system of classification. Special field problems may be given to the students for independent solution.

Dr. Bascom offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Determinative Mineralogy.

Two hours a week throughout the year.

In this course lectures and laboratory practice deal with the determination of minerals by means of physical tests and by blow-pipe analysis. Special emphasis is placed on crystal form and practice is given in the use of the two-circle contact goniometer.

Mr. Bissell offers in 1919-20 and again in 1921-22 the following post-major course, open to graduate students:

Economic Geology.

Two hours a week throughout the year.

The origin and geological occurrence of the useful minerals are treated in considerable detail, particular attention being given to the metallic ores.

Mr. Bissell offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Stratigraphy and Paleontology.

Three hours a week throughout the year.

The work of the first semester consists largely of lectures and assigned reading, and is devoted to a thorough study of the principles of sedimentation. This is followed by a consideration of the laws governing the distribution of organisms in time and space.

In the second semester the lectures deal with the evolution of the continents and seas as shown by the record of the sedimentary rocks and their fossils. The successive formations of North America are studied in order, and ancient physiographic conditions deduced as accurately as possible. Particular attention is paid to the evolution of life through the different geological periods and the changes of environment controlling it. In the laboratory the typical fossils of each formation are studied, and the student is required to learn the guide fossils of the more important geological horizons.

FREE ELECTIVE COURSES.

Dr. Bascom offers in 1920-21 and again in 1922-23 the following free elective course, open to graduate students:

Cosmogony.

One hour a week throughout the year.

The work of the course is conducted by means of lectures, required reading, and classroom discussion. The lectures treat of the origin of the earth, the growth of the continents and the development of landscape, and are illustrated by lantern slides. Reading is assigned to supplement the lectures and to furnish further material for discussion. The course is intended to give a survey of the more important results reached by geologic research. It will be given only if elected by a sufficient number of students.

Mr. Bissell offers in 1919-20 and again in 1921-22 the following free elective course, open to graduate students:

Mineral Resources of the World.

Two hours a week throughout the year.

The course consists of a non-technical discussion of the world's mineral resources: their nature, mode of occurrence, geographical distribution, extent and uses. The metallic ores are first discussed, particularly iron, copper, gold, silver, lead and zinc, but the rarer elements also receive attention. Among the non-metals, coal, oil and gas, and water supply are the most important topics treated. The emphasis throughout the course is placed mainly on the geographic, economic and political significance of mineral resources rather than the technical aspects, and particular attention is paid to the problems of the United States.

Mr. Bissell offers in 1920-21 and again in 1922-23 the following free elective course, open to graduate students:

Principles of Modern Geography.

Two hours a week throughout the year.

In this course the scope of the modern science of geography and the fundamental principles upon which it is based will be discussed and illustrated. The physical environment of man will be first considered, and the manner in which this environment has influenced the growth and expansion of races and nations, the development of systems of government and philosophy, and the rise of commerce and industry will then be illustrated. The logical sequence of cause and effect will be particularly emphasized, and every effort will be made to encourage independent thought on the part of the student. A considerable amount of private reading will be required.

Biology.

The instruction in this department is under the direction of Dr. David Hilt Tennent, Professor of Biology, Dr. Sumner Cushing Brooks, Associate Professor of Physiology and Biochemistry, and Miss Mary Jane Guthrie, Demonstrator in Biology.

GRADUATE COURSES.

The advanced courses are varied from year to year, so as to form a consecutive course for students that wish to make biology one of the chief subjects of the examination for the degree of Doctor of Philosophy. Such students may specialize either in morphology under the guidance of Dr. Tennent, or in physiology or in physiological chemistry under the guidance of Dr. Brooks. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Tennent conducts in each year the following graduate seminary:

Seminary in Zoology.

Three hours a week throughout the year.

In 1919-20 Genetics is the subject of the seminary. The work includes a discussion of biometrical methods and results; of investigations on "pure lines"; of the effectiveness of selection; of the relation between chromosomes and heredity; of various theories of heredity and of the application of these ideas in animal and plant breeding.

In 1920-21 Cytology will be the subject of the seminary. The work deals with the anatomy of the cell and the relations and functions of its various structures in unicellular and multicellular organisms. Special attention is given to the phenomena of spermatogenesis and oögenesis and the theories connected therewith.

In 1921-22 Embryology of Invertebrates is the subject of the seminary. The work includes a systematic survey of the normal development of invertebrates; of the problems of germinal organization, cleavage and differentiation, and a discussion of the bearing of these questions on evolution and inheritance.

Special attention is given to the phenomena of spermatogenesis and oögenesis and the theories connected therewith.

Dr. Brooks conducts in each year the following graduate seminary:

Seminary in Physiology and Biochemistry.

Three hours a week throughout the year.

In 1919-20 the effects of electrolytes upon cells and tissues is the subject studied. Special attention is devoted to such topics as their influence upon growth, respiration, and permeability, and their relation to bioelectric phenomena.

In 1920-21 immunochemistry will be treated. The work will deal mainly with the relation between immune phenomena and the organic and physical chemistry of those body constituents, such as blood, blood cells, serum, and the like, upon which immunity depends.

In 1921-22 Ferments will be studied. Attention will be given to the various theories of catalysis and enzyme action, of the specific relations between ferment and substrate, and similar questions.

The order of the subjects may be varied to meet the needs of the students.

Dr. Tennent and Dr. Brooks together conduct the journal club and the laboratory work.

Biological Journal Club.

One hour a week throughout the year.

The advanced students and the instructors meet for the discussion of topics of current biological literature.

Laboratory Work.

There is no regular course of laboratory instruction for graduates. Each student must devote a considerable portion of her time to such work and will be given a problem for verification or extension. The nature of the work depends in each case on the qualifications of the student.

POST-MAJOR COURSES.

Dr. Tennent offers in 1919-20 and again in 1921-22 the following post-major courses, open to graduate students:

Protoplasm, the Cell, and Cytological Technique.

One hour a week during the first semester.

This course consists of a study of the structure of protoplasm, the structure of the cell, the phenomena of cell division, maturation, and fertilization. Both plant and animal cells will be studied, and instruction will be given in methods of preparing cytological material for microscopical examination. This course is to be taken with four hours laboratory work as a two-hour course.

Experimental Morphology.

One hour a week during the second semester.

The object of this course is to give a general historical view of experimental morphology of both plants and animals, to discuss some of the methods employed, to point out the results already obtained, and to indicate the nature of the work now being done in the subject. This course is to be taken with four hours laboratory work as a two-hour course.

Dr. Tennent offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Embryology of Vertebrates.

One hour a week throughout the year.

This course consists of lectures, assigned reading, and laboratory work on the embryology of vertebrates. The lectures deal with the development of specific forms and with theoretical questions of embryological interest. The department has material for the study of the development of Amphioxus, Ascidian, Amia, Lepidosteus, Squalus, Ctenolabrus, Necturus, Rana, Chrysemys, Chick, and Pig. At least four hours of laboratory work are required.

The course is divided as follows: First semester, Early stages of development. Second semester, Organogeny.

Dr. Brooks offers in 1919-20 and again in 1921-22 the following post-major course open to graduate students:

Biochemistry.

Two hours a week throughout the year.

This course consists of lectures and assigned reading upon the substances recognizable as constituents of the plant or animal body and in its food and waste products, and of laboratory study of their recognition, isolation, and quantitative determination. At least four hours of laboratory work a week is required.

Emphasis will be laid upon the study of substances and their relations to each other, rather than upon processes and their physiological dynamics. A preliminary training in chemistry at least equivalent to that obtained in the minor course is requisite.

Dr. Brooks offers in 1920-21 and again in 1922-23 the following post-major course open to graduate students:

Advanced General Physiology.

Two hours a week throughout the year.

This course consists of lectures and assigned reading upon the physical chemistry of cells and tissues; and of laboratory work designed to acquaint the student with modern methods of studying vital phenomena. At least four hours of laboratory work will be required.

Emphasis will be laid upon processes and their physiological dynamics rather than upon substances and their chemical relationships. A preliminary training in chemistry at least equivalent to that obtained in the minor course is requisite.

Dr. Tennent and Dr. Brooks conduct laboratory work in connection with the above courses:

Laboratory Work.

It is desirable that as much laboratory work as possible should be done in connection with the courses offered above. The object of the laboratory work is to give the student experience in the use of apparatus and in its adaptation to research. Some special problem is assigned to each student; at the end of the year the results of the work are presented in writing.

FREE ELECTIVE COURSE.

Dr. Tennent offers in each year the following free elective course, open to graduate students:

Theoretical Biology.

One hour a week throughout the year.

This is an historical course dealing with the development of the theories of biology. Special attention is given to theories of evolution and heredity. The course is open to students who have had one year's training in science. A considerable amount of assigned reading is required.

COLLEGE BUILDINGS.

The college buildings are situated at Bryn Mawr, in the suburbs of Philadelphia, five miles west of the city, on the main line of the Pennsylvania Railroad. Bryn Mawr is connected with Philadelphia by frequent electric trains on the Pennsylvania Railroad and by an electric trolley running every twenty minutes. The site of the college is four hundred and twenty feet above sea level in the midst of a beautiful rolling country made accessible by good roads in every direction. The college grounds cover fifty-two acres, and include lawns, tennis-courts, and three large athletic fields.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains a general assembly room, eleven lecture-rooms, and the offices of administration.

The Donors' Library, the gift of the friends, graduates, and students of the college, was begun in April, 1903, and completed in February, 1907. It is built of gray stone in the Jacobean Gothic style of architecture of the period of 1630 and forms three sides of a closed quadrangle. The main building, devoted to the library proper, faces east and is opposite and parallel to Taylor Hall at a distance of about fifty yards; the principal entrances of the two buildings face each other and are connected by a broad cement path. The east front is one hundred and seventy-four feet long and contains a three-story stack with accommodation for 88,000 volumes, and above this a large reading-room with desks for one hundred and thirty-six readers, each desk screened to a height of two feet as in the British Museum reading-room to secure privacy to the reader. No books of reference are kept in the main reading-room. Beyond the reading-room on the south side are the newspaper and magazine rooms. On the north side is the Art and Archæological Seminary, containing collections of photographs, vases, and coins. The main building contains the Stack, the New Book Room, Reference Book Room, the Carola Woerishoffer Memorial Room, the Reserved Book Room, the Christian Association Library, two professors' offices, and four cloak rooms. The wings of the building, running symmetrically about two hundred feet in length from the north and south ends of the main building, contain twelve seminary rooms and thirty-one professors' offices. The books needed for graduate study and research are kept in the seminary rooms and graduate lectures are held in them. The seminaries are arranged as follows: Greek, Latin, English, Art and Archæology, French and Italian and Spanish, German, Semitic Languages, Philosophy and Education in the north wing; Mathematics, History, Economics, Carola Woerishoffer Department of Social Economy and Social Research, and Psychology in the south wing, where are also offices for the librarians and cataloguers. The total book capacity of the library, including the seminary libraries and the books for general study which are kept in the stack, is 168,449 volumes. The building is absolutely fireproof. Professors' offices for the two senior professors in each department adjoin the seminary rooms. There are also a general lecture-

room accommodating forty-two students, and three interview rooms. On the first floor of the south wing the department of experimental psychology has two large laboratories, one for general work and one for research. On the first floor of the north wing the department of Education has an experimental research laboratory. The basement of the north wing contains another experimental laboratory of the department of Education, two interview rooms, a room for the Monograph Committee of the Faculty, and fireproof safe rooms for the records and archives of the college. The quadrangular court enclosed by the building is surrounded by cloisters and in the centre of the grass enclosure is a fountain, the gift of the class of 1901.

The library is open for students on week-days from 8 A. M. till 10 P. M. and on Sundays from 2 P. M. till 10 P. M. It is open for the faculty at all hours.

In January, 1893, the scientific departments of the college were transferred to Dalton Hall, a stone building erected by the trustees out of funds in large part contributed by the generosity of friends of the college. Dalton Hall is entirely occupied by the scientific departments, the special scientific libraries, and the consultation-rooms of the professors of science. The first floor and the basement are reserved for physics, the second floor is reserved for biology, the third floor for chemistry, and the fourth and fifth floors for geology. In December, 1893, a greenhouse designed for the use of the botanical department was added to Dalton Hall as the gift of the *alumnæ* and students.

The new gymnasium, erected on the site of the first gymnasium as a gift of the Athletic Association, the *alumnæ* and thirteen neighbours of the college, was completed in February, 1909. It is open to the students from 8 A. M. till 10 P. M., daily, contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the director and an adjoining room for the examination and record of the physical development of the students, a waiting-room, and cloak rooms. The roof, 50 feet wide by 90 feet long, is used for gymnastic drills and students' entertainments. In the basement are dressing-rooms and shower-baths for use after exercise and a swimming-tank, seventy feet long, twenty feet wide, and

from four to seven and a half feet deep, given in 1894 by the *alumnæ*, students, and friends of the college, and well supplied with apparatus for the teaching of swimming. The gymnasium is under the charge of a director and an assistant.

On the grounds, separated from other buildings, is the 1905 Infirmary. It was opened in October, 1913, with accommodation for patients and nurses, doctors' offices and consultation rooms, diet kitchens, bathrooms, wards and private rooms, sun parlour, sun terrace, and two isolation wards.

Plans and descriptions of Taylor Hall, Donors' Library, Dalton Hall, the Gymnasium, the 1905 Infirmary and the six halls of residence, are published in Part 4 of the Bryn Mawr College Calendar and may be obtained from the Secretary and Registrar of the College.

Music-rooms with sound-proof walls and ceilings are provided in Pembroke Hall East. There is a club-room for non-resident students in Rockefeller Hall and also rooms where the students can have hairdressing and dressmaking done.

The Phebe Anna Thorne Open Air Model School of the department of Education is situated on the campus and has its own school building with out-of-door class rooms and athletic ground.

A central power-house, which was erected in 1902 as part of the gift of Mr. John D. Rockefeller, furnishes heat, electric light, and hot water for all the college buildings. Steam is conducted through tunnels underground to coils in the basement of each building. Air brought in from the outside is blown through the heaters by powerful fans and distributed to the various rooms, and the system is so adjusted as to change the air completely in every room once in every ten minutes throughout the day and night. The temperature is regulated by thermostats in the heating coils and every room in the college has separate thermostatic control. The electric lights, including electric reading-lamps for each student, are installed in the most approved manner and the voltage is kept constant so that there is no fluctuation. A constant and abundant supply of hot water is laid on and maintained at a temperature of 180 degrees day and night in all the bathrooms and stationary wash-stands and tea pantries.

Telephone pay stations by means of which the students may be reached at any time are maintained in the library, gymnasium, infirmary and in each of the halls of residence. The Western Union Telegraph and Cable Company delivers telegrams between the hours of 6 A. M. and 12 P. M. Near the college there are a United States money-order office, two banks and an office of the American Railroad Express.

LIST OF DISSERTATIONS

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- BLISS, ELEANORA F., AND JONAS, ANNA I. Relation of the Wissahickon Mica-Gneiss to the Shenandoah Limestone and to the Octoraro Mica-Schist of the Doe Run-Avondale District, Coatesville, Quadrangle, Pennsylvania. 64 p., O. February, 1914.
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* Mrs. Francis Greenleaf Allinson.

† Died, 1917.

- GIBBONS, VERNETTE LOIS. The Potentials of Silver in Non-aqueous Solutions of Silver Nitrate. 32 p., O. Easton, Pa., Eschenbach Printing Co. 1914.
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* Mrs. Joseph M. Dohan.

† Died, 1919.

‡ Mrs. Samuel Prioleau Ravenel.

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* Mrs. Emmons Bryant.

† Mrs. Eugene Lyman Porter.

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* Mrs. William Roy Smith.

† Mrs. Eric Charles William Scheel Lyders.

‡ Mrs. Winthrop Merton Rice.

§ Died, 1905.

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* Mrs. Herman Lommel.

† Mrs. William Bashford Huff. Died, 1913.

‡ Died, 1912.

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Reprint from the *Smith College Studies in History*, vol. v.

* Mrs. Lewis Albert Anderson.

† Mrs. George Arthur Wilson.

SCHEDULE OF LECTURES

Hour	Course	Monday	Tuesday
9	MATRICULATION	Greek (Kirk) German (Quimby)	Greek (Kirk) German (Quimby)
	GENERAL	Philosophy, Div. A (T. de Laguna) Div. B (G. de Laguna) Div. C. (Sabin)	Philosophy, Div. A (T. de Laguna) Div. B. (G. de Laguna) Div. C (Sabin)
	MINOR	Greek, Plato (Sanders) French Literature Div. B (Schenek) Div. A. (Pardé) Economics, Introduction to Economics, Div. B (Franklin) Ancient Architecture (Carpenter) Mathematics, Conics (Scott) Chemistry (Brunel) Geology (Bascom)	Greek, Homer (W. C. Wright) French Reading and Composition Div. B (Schenek) Div. A (Pardé) Economics, Introduction to Economics, Div. B (Franklin) Hellenistic Towns (Carpenter) Mathematics, Trigonometry (Scott) Chemistry (Brunel) Geology (Bascom)
	MAJOR	Italian (Riddell) Psychology, Social Psychology (Leuba)	Italian (Riddell) Psychology, Social Psychology (Leuba)
	ELECTIVE	Europe Since 1870 (Gray) Educational Psychology (Arlitt) Biology, Theoretical (Tennent)	History of the U. S. from 1865 (W. C. Wright) Education (Castro) Modern Geography (Bissell)
	POST-MAJOR	Inorganic Chemistry (Crenshaw)	
	GRADUATE	Seminary in Employment Management (—), 9-5 Physics (Huff)	Seminary in Social Research, F (Kingsbury), 9-5
10	GENERAL	English Literature, 2nd year (Donnelly)	English Literature, 2nd year (Donnelly)
	MINOR	English, 19th Century Critics (Chew) German Grammar (Prokosch) Spanish, 1st year (De Haan) History of Europe, Div. A (David) Biology (Tennent)	English, 19th Century Critics (Chew) German Literature (Prokosch) Spanish 1st year (De Haan) History of Europe, Div. A (David) Biology (Tennent)
	MAJOR	Philosophy, Kant to Spencer (Sabin) 17th and 18th Cent. Painting (Fernald)	Philosophy, Kant to Spencer (Sabin) Renaissance Sculpture (G. G. King)
	ELECTIVE	Private Law (Fenwick)	Modern French Literature (Schenek)
	POST-MAJOR	Physics (Barnes) Chemistry (Brunel)	Physical Chemistry (Crenshaw)
	GRADUATE	Petrography (Bascom)	Applied Psychology (Rand), 10-1
11	GENERAL	English Composition, 1st year (Savage)	English Composition, 1st year (Savage)
	MINOR	Italian (Riddell) Economics, Introduction to Economics, Div. A (M. P. Smith) Philosophy, Logic and Ethics (T. de Laguna) Greek Sculpture (Carpenter)	Italian (Riddell) Economics, Introduction to Economics, Div. A (M. P. Smith) Philosophy, Logic and Ethics (T. de Laguna) Ancient Painting (Swindler)
	MAJOR	Latin, Tacitus (Wheeler) Spanish Reading (De Haan) History of the Renaissance (Gray) Physics (Barnes) Chemistry (Crenshaw)	Latin Literature (H. W. Wright) Spanish Literature (De Haan) History of the Renaissance (Gray) Physics (Barnes) Chemistry (Crenshaw)
	ELECTIVE	History of the Near East (Barton)	History of the Far East (Barton) Greek Religion and Myths (W. C. Wright)
	GRADUATE	Seminary in Social Economy (Kingsbury, Deardorff, Additon), 11-1 Systematic Psychology (Ferree)	
12	MATRICULATION	French (Crawford)	French (Crawford)
	MINOR	Latin, Cicero, Div. A (Wheeler) Div. B (Swindler) English, Middle English Romances Spanish, Div. B (Dorado) History of Europe, Div. B (W. R. Smith) Psychology, Experimental (Ferree and Rand) Italian Renaissance Painting (G. G. King) Physics (Huff)	Latin, Horace, Div. B (H. W. Wright) Div. A (Swindler) English, Middle English Romances Spanish, Div. B (Dorado) History of Europe, Div. B (W. R. Smith) Psychology, Experimental (Ferree and Rand) Gothic Architecture (G. G. King) Physics (Huff)
	MAJOR	Greek, Demosthenes (Sanders) English Drama (Chew) French Literature (—) Politics, Present Problems (Fenwick) Mathematics (Pell) Geology (Bissell) Biology (Brooks)	Greek Literature (W. C. Wright) English Drama (Chew) French Reading and Composition Politics, Present Problems (Fenwick) Mathematics (Pell) Geology (Bissell) Biology (Brooks)
	GRADUATE	Chemistry (Brunel)	Chemistry (Brunel)

WEDNESDAY	THURSDAY	FRIDAY
<p>Greek (Kirk) German (Quimby)</p> <p>Philosophy, Div. A (T. de Laguna) Div. B (G. de Laguna) Div. C (Sabin)</p> <p>Plato (Sanders) Literature Div. B (Schenck) Div. A (Pardé)</p> <p>Economics, Introduction to Economics, Div. B (Franklin)</p> <p>Ancient Architecture (Carpenter)</p> <p>Mathematics, Conics (Scott)</p> <p>Chemistry (Brunel)</p> <p>Geology (Bascom)</p> <p>Italian (Riddell)</p> <p>Psychology, Social Psychology (Leuba)</p> <p>Europe Since 1870 (Gray)</p> <p>Educational Psychology (Arlitt)</p> <p>Physical Basis of Music (Huff)</p> <p>Economic Journal Club (Kingsbury, Dedoff, Addition, White), 9-11 Physics (Huff)</p> <p>English Literature, 2nd year (Donnelly)</p> <p>English, 19th Century Critics (Chew) German Reading (Prokosch) Spanish I iv. A (De Haan) History of Europe, Div. A (David) Biology, Demonstration (Tennent)</p> <p>Philosophy, Kant to Spencer (Sabin) 17th and 18th Cent. Painting (Fernald)</p> <p>Physics (Barnes) Chemistry (Brunel)</p> <p>Petrography (Bascom)</p> <p>English Composition, 1st year (Savage)</p> <p>Italian (Riddell)</p> <p>Economics, Introduction to Div. A (M. P. Smith)</p> <p>Philosophy, Logic and Ethics (T. de Laguna) Ancient Painting (Swindler)</p> <p>Latin, Tacitus (Wheeler) Spanish Grammar (De Haan) History of the Renaissance (Gray) Physics Laboratory (Barnes) Chemistry (Crenshaw)</p> <p>History of the Near East (Barton)</p> <p>Mathematics (Scott)</p> <p>Community Organization in Social and Industrial Research (Kingsbury)</p> <p>Systematic Psychology (Ferree)</p> <p>French (Crawford)</p> <p>Latin, Cicero, Div. A (Wheeler) Div. B (Swindler)</p> <p>English, Middle English Romances (———) Spanish, Div. B (Dorado)</p> <p>History of Europe, Div. B. (W. R. Smith)</p> <p>Psychology, Experimental (Ferree and Rand)</p> <p>Italian Renaissance Painting (G. G. King)</p> <p>Physics (Huff)</p> <p>Greek, Aristophanes (Sanders)</p> <p>English Drama (Chew)</p> <p>French Literature (———)</p> <p>Politics, Present Problems (Fenwick)</p> <p>Mathematics (Pell)</p> <p>Geology Laboratory (Bissell)</p> <p>Biology (Brooks)</p>	<p>Greek (Kirk) German (Quimby)</p> <p>Philosophy, Div. A (T. de Laguna) Div. B (G. de Laguna) Div. C (Sabin)</p> <p>Greek, Homer (W. C. Wright)</p> <p>French Reading and Composition Div. B (Schenck) Div. A (Pardé)</p> <p>Economics, Introduction to Economics, Div. B (Franklin)</p> <p>Hellenistic Towns (Carpenter)</p> <p>Mathematics, Trigonometry (Scott)</p> <p>Chemistry, Demonstration (Brunel)</p> <p>Geology, Demonstration (Bascom)</p> <p>Italian (Riddell)</p> <p>Psychology, Social Psychology (Leuba)</p> <p>History of the U. S. from 1865 (W. R. Smith)</p> <p>Education (Castro)</p> <p>Modern Geography (Bissell)</p> <p>Industrial Supervision and Employment Management (———), 9-11</p> <p>Physics Journal Club (Huff and Barnes)</p> <p>Biology Journal Club (Tennent and Brooks)</p> <p>English Literature, 2nd year (Donnelly)</p> <p>English, 19th Century Critics (Chew) German Literature (Prokosch) Spanish I iv. A (De Haan) History of Europe, Div. A (David) Biology, Demonstration (Tennent)</p> <p>Philosophy, Kant to Spencer (Sabin) Renaissance Sculpture (G. G. King)</p> <p>Modern French Literature (Schenck)</p> <p>Physical Chemistry (Crenshaw)</p> <p>English Composition, 1st year (Savage)</p> <p>Italian (Riddell)</p> <p>Economics, Introduction to Div. A (M. P. Smith)</p> <p>Philosophy, Logic and Ethics (T. de Laguna) Ancient Painting (Swindler)</p> <p>Latin Literature (H. W. Wright)</p> <p>Spanish Literature (De Haan)</p> <p>History of the Renaissance (Gray)</p> <p>Physics Laboratory (Barnes)</p> <p>Chemistry Laboratory (Crenshaw)</p> <p>History of the Far East (Barton)</p> <p>Greek Religion and Myths (W. C. Wright)</p> <p>Community Organization (White), 11-1 Social Treatment (Addition), 11-1</p> <p>French (Crawford)</p> <p>Latin, Horace, Div. B (H. W. Wright) Div. A (Swindler)</p> <p>English, Middle English Romances (———)</p> <p>Spanish, Div. B (Dorado)</p> <p>History of Europe, Div. B (W. R. Smith)</p> <p>Psychology, Experimental (Ferree and Rand)</p> <p>Gothic Architecture (G. G. King)</p> <p>Physics, Demonstration (Huff)</p> <p>Greek Literature (W. C. Wright)</p> <p>English Drama (Chew)</p> <p>French Reading and Composition (———)</p> <p>Politics, Present Problems (Fenwick)</p> <p>Mathematics (Pell)</p> <p>Geology Laboratory (Bissell)</p> <p>Biology (Brooks)</p> <p>Chemistry Journal Club (Brunel and Crenshaw)</p>	<p>Greek (Kirk) German (Quimby)</p> <p>Philosophy, Div. A (T. de Laguna) Div. B (G. de Laguna) Div. C (Sabin)</p> <p>Greek, Sophocles (Sanders)</p> <p>French Literature Div. B (Schenck) Div. A (Pardé)</p> <p>Economics, Introduction to Economics, Div. B (Franklin)</p> <p>Ancient Architecture (Carpenter)</p> <p>Mathematics, Conics (Scott)</p> <p>Chemistry (Brunel)</p> <p>Geology (Bascom)</p> <p>Italian (Riddell)</p> <p>Psychology, Social Psychology (Leuba)</p> <p>Europe Since 1870 (Gray)</p> <p>Educational Psychology (Arlitt)</p> <p>Physical Basis of Music (Huff)</p> <p>Seminary in Employment Management (———) 9-11</p> <p>Physics (Huff)</p> <p>English Literature, 2nd year (Donnelly)</p> <p>English, 19th Century Critics (Chew) German Reading (Prokosch) Spanish I iv. A (De Haan) History of Europe, Div. A (David) Biology (Tennent)</p> <p>Philosophy, Kant to Spencer (Sabin) 17th and 18th Cent. Painting (Fernald)</p> <p>Physics (Barnes) Chemistry (Brunel)</p> <p>Petrography (Bascom)</p> <p>English Composition, 1st year (Savage)</p> <p>Italian (Riddell)</p> <p>Economics, Introduction to Div. A (M. P. Smith)</p> <p>Philosophy, Logic and Ethics (T. de Laguna) Greek Sculpture (Carpenter)</p> <p>Latin, Tacitus (Wheeler) Spanish Reading (De Haan) History of the Renaissance (Gray) Physics Laboratory (Barnes) Chemistry Laboratory (Crenshaw)</p> <p>History of the Near East (Barton)</p> <p>Systematic Psychology (Ferree)</p> <p>French (Crawford)</p> <p>Latin, Cicero, Div. A (Wheeler) Div. B (Swindler)</p> <p>English, Middle English Romances (———)</p> <p>Spanish, Div. B (Dorado)</p> <p>History of Europe, Div. B (W. R. Smith)</p> <p>Psychology, Experimental (Ferree and Rand)</p> <p>Italian Renaissance Painting (G. G. King)</p> <p>Physics (Huff)</p> <p>Greek, Demosthenes (Sanders)</p> <p>English Drama (Chew)</p> <p>French Literature (———)</p> <p>Politics, Present Problems (Fenwick)</p> <p>Mathematics (Pell)</p> <p>Geology Laboratory (Bissell)</p> <p>Biology (Brooks)</p>

SCHEDULE OF LECTURE

Hour	Course	Monday	Tuesday
2	LABORATORY WORK	Psychology, Minor (Ferree and Rand) Educational Psychology (Arlitt) Physics, Minor (Huff) Chemistry, Major (Crenshaw) Geology, Major, Field Work (Bissell) Biology, Minor (Tennent)	Psychology, Minor (Ferree and Rand) Physics, Minor (Huff) Chemistry, Major (Crenshaw) Geology, Major (Bissell) Biology, Minor (Tennent)
	ELECTIVE		
	POST-MAJOR	Greek, Sophocles (Sanders) French, Lyric Poetry (Pardé) Economics and Politics, Economic and Social Problems (M. P. Smith) Spanish Painting (G. G. King) Mathematics Scott)	Greek, Sophocles (Sanders) French, Lyric Poetry (Pardé) Economics and Politics, Economic and Social Problems (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Scott)
	GRADUATE	Cynewulf and Caedmon (———), 2.30-4.30 Italian Seminary (Riddell), 2-4	Seminary in Municipal Government (Franklin) Seminary in Metaphysics (G. de Laguerre), 2-4.
3	LABORATORY WORK	Psychology, Minor (Ferree and Rand) Educational Psychology (Arlitt) Physics, Minor (Huff) Chemistry, Major (Crenshaw) Geology, Major, Field Work (Bissell) Biology, Minor (Tennent)	Psychology, Minor (Ferree and Rand) Physics, Minor (Huff) Chemistry, Major (Crenshaw) Geology, Major (Bissell) Biology, Minor (Tennent)
	ELECTIVE	Elocution, Reading of Prose (S. A. King) Biblical Literature (Barton)	Elocution, Reading of Prose (S. A. King) Minor Arts (G. G. King) Advanced Experimental Psychology (Ferree)
	POST-MAJOR	Greek, Theocritus (W. C. Wright) Latin, Vergil (H. W. Wright) Spanish (Dorado) History, American Constitutional (W. R. Smith) Social Betterment (Kingsbury)	Latin, Vergil (H. W. Wright) Spanish (Dorado) History, American Constitutional (W. R. Smith) Social Betterment (Kingsbury) Mathematics, (Pell)
	GRADUATE	Teutonic Seminary, 3-5 Foundations of French Grammar Psychology Journal Club (Leuba, Ferree, and Rand) Seminary in Modern Painting (G. G. King), 3-5	Greek Seminary, Attic Tragedy (Sanders), 3-4.30 Seminary in English Literature (Chubb), 3-4.30 French Literature (Pardé) Advanced Social Statistics (———)
4	GRADUATE	Latin Seminary, Epigraphy (H. W. Wright) 4-6 Seminary in Mediæval French Literature (———), 4-6 Seminary in English Literature (Donnelly), 4-6 Seminary in Aramaic and Arabic (Barton) History Journal Club (Gray, W. R. Smith, David), 4-6. Alternate Weeks Economics Journal Club (M. P. Smith, Fenwick, Franklin), 4-6. Alternate Weeks Seminary in Social Theory (Deardorff), 4-6 Psychology Seminary (Leuba), 4-6 Seminary in Zoology (Tennent), 4.30-6	Greek Journal Club (Sanders and W. Wright), 4.30-6. Alternate Weeks Latin Journal Club (Wheeler and H. Wright) 4.30-6. Alternate Weeks Middle English Seminary (———), 4.30-6 Semitic Seminary (Barton) Seminary in European History (Gray), 4 Seminary in Politics (Fenwick), 4-6 Seminary in Educational Psychology (Carter), 4-6 Mathematical Journal Club (Scott and Pell), Alternate Weeks
5	GRADUATE	Introduction to Teutonic Philology Spanish Seminary (Dorado)	Seminary in Physiology 4.30-6 (Brooks) Comparative Semitic Grammar (Barton)

FIRST SEMESTER, 1920-21 (continued).

WEDNESDAY	THURSDAY	FRIDAY
<p>Cek, Herodotus (Sanders) Lin, Composition (H. W. Wright) Fench, Masterpieces of French Literature (Pardé) Economics and Politics, Economic and Social Problems (M. P. Smith) English Painting (G. G. King) Biology, Embryology (Tennent)</p> <p>Archæological Seminary (Carpenter), 2-4 Advanced Old French Philology (—) Intelligence Tests (Arlitt), 2-4 Glogy Journal Club (Bascom and Bissell), 15-4.15. Alternate Weeks</p>	<p>Physics, Major (Barnes) Chemistry, Minor (Brunel) Geology, Minor (Bascom) Biology, Major (Brooks)</p> <p>Versification (Crandall) German Literature (Prokosch) Modern French Drama (Schenck)</p> <p>Economics and Politics, International Law (Fenwick) Chinese and Japanese Art (Fernald)</p> <p>Seminary in European History (Gray) Ægean Archæology (Swindler), 2-4</p>	<p>Physics, Major (Barnes) Chemistry, Minor (Brunel) Geology, Minor (Bascom) Biology, Major (Brooks)</p> <p>German Literature (Prokosch) Modern French Drama (Schenck)</p> <p>Economics and Politics, International Law (Fenwick) Chinese and Japanese Art (Fernald) Mathematics (Pell)</p> <p>Greek Seminary, Plato (W. C. Wright), 2-4</p>
<p>Augmentation (Crandall) Fictional Literature (Barton) Elements of Statistics (—)</p> <p>Cek, Theocritus (W. C. Wright) Lin, Vergil (H. W. Wright) Spanish (Dorado) French Revolution (David) Mathematics, (Pell) Biology, Physiology (Brooks)</p> <p>Chie Seminary in Politics (Fenwick)</p>	<p>Physics, Major (Barnes) Chemistry, Minor (Brunel) Geology, Minor (Bascom) Biology, Major (Brooks)</p> <p>The Short Story (Crandall) Minor Arts (G. G. King)</p> <p>Record Keeping (Kingsbury)</p> <p>Roman Elegy (Wheeler) Spanish (De Haan) French Revolution (David)</p> <p>Greek Seminary, Attic Tragedy (Sanders), 3-4.30 Seminary in English Literature (Chew), 3-4.30 French Literature (Pardé) 3-4.30 Philosophical Journal Club (Theodore de Laguna, Grace de Laguna, and Sabin), 3-4.30</p>	<p>Physics, Major (Barnes) Chemistry, Minor (Brunel) Geology, Minor (Bascom) Biology, Major (Brooks)</p> <p>Roman Elegy (Wheeler) Spanish (De Haan) French Revolution (David)</p> <p>English Journal Club (Donnelly, Chew, Savage, Crandall, Prokosch), 3-4.30. Alternate Weeks Gothic Romance Languages Journal Club (Schenck, Pardé, Riddell, De Haan, and Dorado), 3-4.30. Alternate Weeks Archæological Journal Club (Carpenter, Swindler), 3-4.30. Alternate Weeks Mathematics Seminary (Scott), 3-5</p>
<p>Lin Seminary, Roman Elegy (Wheeler), 30-6 Seminary in English Composition (Crandall), -6 Middle High German Seminary in Modern French Literature (Schenck) 4-6 Spanish Seminary Dorado), 4-6 Seminary in Oriental Archæology (Barton) Seminary in American History (W. R. Smith), -6 Seminary in Ethics (Theodore de Laguna), -6 Seminary in Education (Castro), 4-6</p> <p>Seminary in Zoology (Tennent), 4.30-6</p> <p>High German</p>	<p>Middle English Seminary (—), 4.30-6 Seminary in German Literature (Prokosch), 4-6 Semitic Seminary (Barton) Historical Bibliography (David) Seminary in Municipal Government (Frank-), 4-6 Social and Industrial Research (Kingsbury) 4-6 Seminary in Social Psychology (Leuba), 4-6 Education Journal Club (Castro and Arlitt), 4.30-6 Journal Club in History of Art (G. G. King), 4.30-6. Alternate Weeks Mathematics Seminary (Pell), 4-6</p> <p>Seminary in Physiology (Brooks) 4.30-6</p> <p>Ethiopic (Barton)</p>	<p>Latin Seminary, Roman Elegy (Wheeler) 4.30-6</p> <p>Middle High German Romance Philology (—), 4.30-6 Seminary in History of England (David), 4-6 Seminary in Economics (M. P. Smith), 4-6</p> <p>Seminary in Labour Organization (—), 4-6</p> <p>Seminary in Petrology (Bascom), 4.30-6</p> <p>Old High German</p>

HOOR	COURSE	MONDAY	TUESDAY
9	MATRICULATION	Greek (Kirk) German (Quimby)	Greek (Kirk) German (Quimby)
	GENERAL	Psychology, Div. A (Leuba) Div. B (Sabin)	Psychology, Div. A (Leuba) Div. B (Sabin)
	MINOR	Greek, Euripides (Sanders) French, 19th Century Literature, Div. B (Pardé) Div. A ()	Greek, Homer (W. C. Wright) French Reading and Composition, Div. B (Pardé) Div. A ()
	MAJOR	Introduction to Government and Politics, Div. B (Fenwick) Ancient Architecture (Carpenter) Mathematics, Crenshaw (Pell) Chemistry (Crenshaw) Geology (Bissell)	Introduction to Government and Pol Div. B (Fenwick) Ancient Rome (Swindler) Mathematics, Algebra (Pell) Chemistry Laboratory (Crenshaw) Geology Laboratory (Bissell)
	ELECTIVE	History of Europe since 1870 (Gray) Educational Psychology (Arlitt) Biology, Theoretical (Tennent)	History of the U. S. from 1865 (W. R. S. Education (Castro) Modern Geography (Bissell)
	GRADUATE	Seminary in Employment Management (), 9-5 Physics (Barnes)	Seminary in Social Research, Field W (Kingsbury), 9-5
10	GENERAL	English Composition, 2nd year (Savage)	English Composition, 2nd year (Savage)
	MINOR	English Poetry (Chew) English Mid. Eng. Poetry and Chaucer () German Grammar (Prokosh) Spanish, Div. A (Dorado) History of Europe from 1789, Div. A (Gray) Biology Laboratory (Brooks)	English Poetry (Chew) English Mid. Eng. Poetry and Chaucer () German Literature (Prokosh) Spanish, Div. A (Dorado) History of Europe from 1789, Div. A (G Biology Laboratory (Brooks)
	MAJOR	Recent Philosophical Tendencies (T. de Laguna) 17th and 18th Century Painting (Fernald)	Recent Philosophical Tendencies (T. Laguna) Renaissance Sculpture (G. G. King)
	ELECTIVE	Private Law (Fenwick)	Modern French Literature (Schenck)
	POST-MAJOR	Physics (Huff) Chemistry (Brunel)	Physical Chemistry (Crenshaw)
	GRADUATE	Petrography (Bascom)	Applied Psychology (Rand), 10-12
11	GENERAL	English Literature, 1st year (Donnelly)	English Literature, 1st year (Donnelly)
	MINOR	Italian (Riddell) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (G. de Laguna) Greek Sculpture (Carpenter)	Italian (Riddell) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (G. de Laguna) Archæology, Minor Arts (Carpenter)
	MAJOR	Latin Comedy (Wheeler) Spanish Reading (Dorado) History, British Imperialism (W. R. Smith) Physics (Huff) Chemistry (Brunel)	Latin Literature (H. W. Wright) Spanish Literature (Dorado) History, British Imperialism (W. R. S. Physics (Huff) Chemistry (Brunel)
	ELECTIVE	History of the Near East (Barton)	History of the Far East (Barton) Literary Geography (W. C. Wright)
	POST-MAJOR		Geology (Bascom)
	GRADUATE	Seminary in Social Economy (Kingsbury, Deardorff, Additon), 11-1 Systematic Psychology (Ferree)	
12	MATRICULATION	French (Crawford)	French (Crawford)
	MINOR	Latin, Terence, Div. B (Wheeler) Div. A (Swindler) Spanish, Div. B (De Haan) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (Leuba) Italian Renaissance Painting (G. G. King) Physics (Barnes)	Latin Horace, Div. A (H. W. Wright) Div. B (Swindler) Spanish, Div. B (De Haan) History of Europe from 1789, Div. B (Dav Psychology of Instinct and Emotion (Leu Gothic Architecture (G. G. King) Physics Laboratory (Barnes)
	MAJOR	Greek, Thucydides (Sanders) English Fiction (Savage) French Literature (Schenck) Econ. Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology (Bascom) Biology (Tennent)	Greek Literature (W. C. Wright) English Fiction (Savage) French, Reading and Composition (Schen Econ., Hist. of Econ. Thought (M. P. S. Mathematics (Scott) Geology (Bascom) Biology (Tennent)
	GRADUATE	Chemistry (Brunel)	Chemistry (Brunel)

WEDNESDAY	THURSDAY	FRIDAY
Greek (Kirk) German (Quimby)	Greek (Kirk) German (Quimby)	Greek (Kirk) German (Quimby)
Psychology, Div. A (Leuba) Div. B (Sabin)	Psychology, Div. A (Leuba) Div. B (Sabin)	Psychology, Div. A (Leuba) Div. B (Sabin)
Greek, Euripides (Sanders) French, 19th Century Literature, Div. B (Pardé) Div. A (—)	Greek, Homer (W. C. Wright) French, Reading and Composition, Div. B (Pardé) Div. A (—)	Greek, Herodotus (Sanders) French, 19th Century Literature, Div. B (Pardé) Div. A (—)
Introduction to Government and Politics, Div. B (Fenwick) Ancient Architecture (Carpenter) Mathematics, Calculus (Pell) Chemistry (Crenshaw) Geology (Bissell)	Introduction to Government and Politics Div. (Fenwick) Ancient Rome (Swindler) Mathematics, Algebra (Pell) Chemistry, Demonstration (Crenshaw) Geology, Demonstration (Bissell)	Introduction to Government and Politics, Div. B. (Fenwick) Ancient Architecture (Carpenter) Mathematics, Calculus (Pell) Chemistry (Crenshaw) Geology (Bissell)
Italian (Riddell)	Italian (Riddell)	Italian (Riddell)
Psychology, Applied (Rand)	Psychology Applied (Rand)	Psychology, Applied (Rand)
History of Europe since 1870 (Gray) Educational Psychology (Arlitt) Physical Basis of Music (Huff)	History of the U. S. from 1865 (W. R. Smith) Education (Castro) Modern Geography (Bissell)	History of Europe since 1870 (Gray) Educational Psychology (Arlitt) Physical Basis of Music (Huff)
Industrial Economy Journal Club (Kingsbury, Leardorf, Addison, White), 9-11 Physics (Barnes)	Industrial Supervision and Employment Management (—), 9-11 Physics Journal Club (Huff and Barnes) Biology Journal Club (Tennent and Brooks)	Seminary in Industrial Supervision and Employment Management (—), 9-11 Physics (Barnes)
English Composition, 2nd year (Savage)	English Composition, 2nd year (Savage)	English Composition, 2nd year (Savage)
English Poetry (Chew) English Mid. Eng. Poetry and Chaucer (—) German Reading (Prokosch) Spanish, Div. A (Dorado) History of Europe from 1789, Div. A (Gray) Biology, Demonstration (Brooks)	English Poetry (Chew) English Mid. Eng. Poetry and Chaucer (—) German Literature (Prokosch) Spanish, Div. A (Dorado) History of Europe from 1789, Div. A (Gray) Biology, Demonstration (Brooks)	English Poetry (Chew) English Mid. Eng. Poetry and Chaucer (—) German Reading (Prokosch) Spanish Div. A (Dorado) History of Europe from 1789 Div. A (Gray) Biology (Brooks)
Recent Philosophical Tendencies (T. de Laguna) 17th and 18th Century Painting (Fernald)	Recent Philosophical Tendencies (T. de Laguna) Renaissance Sculpture (G. G. King) Modern French Literature (Schenck)	Recent Philosophical Tendencies (T. de Laguna) 17th and 18th Century Painting (Fernald)
Physics (Huff) Chemistry (Brunel)	Physical Chemistry (Crenshaw)	Physics (Huff) Chemistry (Brunel)
Petrography (Bascom)		Petrography (Bascom)
English Literature, 1st year (Donnelly)	English Literature, 1st year (Donnelly)	English Literature, 1st year (Donnelly)
Italian (Riddell) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (G. de Laguna) Greek Sculpture (Carpenter)	Italian (Riddell) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (G. de Laguna) Archæology, Minor Arts (Carpenter)	Italian (Riddell) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (G. de Laguna) Greek Sculpture (Carpenter)
Latin Comedy (Wheeler) Spanish Grammar (Dorado) History, British Imperialism (W. R. Smith) Physics (Huff) Chemistry (Brunel)	Latin Literature (H. W. Wright) Spanish Literature (Dorado) History, British Imperialism (W. R. Smith) Physics Laboratory (Huff) Chemistry Laboratory (Brunel)	Latin Comedy (Wheeler) Spanish Reading (Dorado) History, British Imperialism (W. R. Smith) Physics Laboratory (Huff) Chemistry Laboratory (Brunel)
History of the Near East (Barton) Mathematics (Scott)	Literary Geography (W. C. Wright) History of the Far East (Barton)	History of the Near East (Barton)
Seminary in Social and Industrial Research (Kingsbury) Systematic Psychology (Ferree)	Community Organization (White), 11-1 Social Treatment (Additon), 11-1	Systematic Psychology (Ferree)
French (Crawford)	French (Crawford)	French (Crawford)
Latin, Terence, Div. B (Wheeler) Div. A. (Swindler) Spanish, Div. B (De Haan) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (Leuba) Italian Renaissance Painting (G. G. King) Physics (Barnes)	Latin, Horace, Div. A (H. W. Wright) Div. B (Swindler) Spanish, Div. B (De Haan) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (Leuba) Gothic Architecture (G. G. King) Physics, Demonstration (Barnes)	Latin, Terence, Div. B (Wheeler) Div. A. (Swindler) Spanish Div. B (De Haan) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (Leuba) Italian Renaissance Painting (G. G. King) Physics (Barnes)
Greek, Sophocles (Sanders) English Fiction (Savage) French Literature (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology (Bascom) Biology (Tennent)	Greek Literature (W. C. Wright) English Fiction (Savage) French, Reading and Composition (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology Laboratory (Bascom) Biology Laboratory (Tennent)	Greek, Thucydides (Sanders) English Fiction (Savage) French Literature (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology Laboratory (Bascom) Biology Laboratory (Tennent)
Chemistry Journal Club (Brunel and Crenshaw)	Chemistry Journal Club (Brunel and Crenshaw)	

SCHEDULE OF LECTURES

Hours	Course	MONDAY	TUESDAY
2	LABORATORY WORK	Educational Psychology (Arlitt) Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major, Field Work (Bascom) Biology, Minor (Brooks)	Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major (Bascom) Biology, Minor (Brooks)
	ELECTIVE		
	POST-MAJOR	Greek, Euripides (Sanders) French, Lyric Poetry (Pardé) Economics and Politics, Economic and Social Problems (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Scott)	Greek, Bacchylides (Sanders) French, Lyric Poetry (Pardé) Economics and Politics, Economic and Social Problems (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Scott)
3	GRADUATE	Cynewulf and Caedmon (———), 2.30-4.30 Italian Seminary (Riddell), 2-4	Seminary in Municipal Government (Flin) Seminary in Metaphysics (G. de Lagrange), 2-4
	LABORATORY WORK	Educational Psychology (Arlitt) Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major, Field Work (Bascom) Biology, Minor (Brooks)	Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major (Bascom) Biology, Minor (Brooks)
	ELECTIVE	Elocution, Reading of Prose (S. A. King) Biblical Literature (Barton)	Elocution, Reading of Prose (S. A. King) Minor Arts (G. G. King) Advanced Experimental Psychology (Fennell)
4	POST-MAJOR	Greek, Aeschylus (W. C. Wright) Latin, Roman Prose of the Empire (H. W. Wright) Spanish (Dorado) History, American Constitutional (W. R. Smith) Social Betterment (Kingsbury)	Latin, Roman Prose of the Empire (H. W. Wright) Spanish (Dorado) History, American Constitutional (W. R. Smith) Social Betterment (Kingsbury) Mathematics (Fell)
	GRADUATE	Teutonic Seminary, 3-5 Foundations of French Grammar (———) Psychology Journal Club (Leuba, Ferree and Rand) Seminary in Modern Painting (G. G. King), 3-5	Greek Seminary, Attic Tragedy (Sanders), 3-4.30 Seminary in English Literature (Chubb), 3-4.30 French Literature (Pardé), 3-4.30 Egyptian (Barton) Advanced Social Statistics (———)
	GRADUATE	Latin Seminary, Epigraphy (H. W. Wright) Seminary in English Literature (Donnelly), 4-6 Seminary in Medieval French Literature (———), 4-6 Seminary in Aramaic and Arabic (Barton) History Journal Club (Gray, W. R. Smith, and David), 4-6. Alternate Weeks Economics Journal Club (Marion P. Smith, Fenwick, Franklin), 4-6. Alternate Weeks Seminary in Social Theory (Deardorff), 4-6 Psychology Seminary (Leuba), 4-6	Greek Journal Club (Sanders and Wright), 4.30-6. Alternate Weeks Latin Journal Club (Wheeler and H. W. Wright), 4.30-6. Alternate Weeks Middle English Seminary, 4.30-6 Semitic Seminary (Barton) Seminary in European History (Gray), 4-6 Seminary in Politics (Fenwick), 4-6 Seminary in Ethics (Theodore de Lagrange), 4-6 Seminary in Educational Psychology (Carter), 4-6 Mathematical Journal Club (Scott and Parnell), Alternate Weeks
5	GRADUATE	Seminary in Zoology (Tennent), 4.30-6 Introduction to Teutonic Philology Spanish Seminary (Dorado)	Seminary in Physiology (Brooks), 4.30-6 Comparative Semitic Grammar (Barton)

SECOND SEMESTER, 1920-21 (continued).

WEDNESDAY	THURSDAY	FRIDAY
<p>istry, Major (Brunel)</p> <p>ek, Prose Composition (Sanders) in, Composition (H. W. Wright)</p> <p>ach, Masterpieces of French Literature (Pardé)</p> <p>conomics and Politics, Economic and Social problems (M. P. Smith)</p> <p>nish Painting (G. G. King)</p> <p>logy, Embryology (Tennent)</p> <p>anced Old French Philology (—), 2-4 heological Seminary (Carpenter), 2-4 elligence Tests (Arlitt), 2-4 logy Journal Club (Bascom and Bissell), 1.15-4.15. Alternate Weeks</p>	<p>Psychology, Major (Rand) Physics, Major (Huff) Chemistry, Minor (Crenshaw) Geology, Minor (Bissell) Biology, Major (Tennent)</p> <p>Argumentation (Crandall)</p> <p>German Literature (Prokosch) Modern French Drama (Schenck)</p> <p>Economics and Politics, International Law (Fenwick) Chinese and Japanese Art (Fernald)</p> <p>Seminary in European History (Gray) Ancient Painting (Swindler)</p>	<p>Psychology, Major (Rand) Physics, Major (Huff) Chemistry, Minor (Crenshaw) Geology, Minor (Bissell) Biology, Major (Tennent)</p> <p>German Literature (Prokosch) Modern French Drama (Schenck)</p> <p>Economics and Politics, International Law (Fenwick) Chinese and Japanese Art (Fernald) Mathematics (Pell)</p> <p>Greek Seminary, Plato (W. C. Wright), 2-4</p>
<p>istry, Major (Brunel)</p> <p>umentation (Crandall)</p> <p>ical Literature (Barton)</p> <p>ments of Statistics (—)</p> <p>ek, Aeschylus (W. C. Wright) in, Roman Prose of the Empire (H. W. Wright)</p> <p>nish (Dorado)</p> <p>tory, French Revolution (David)</p> <p>thematics (Pell)</p> <p>logy (Brooks)</p> <p>hic inary in Politics (Fenwick)</p>	<p>Psychology, Major (Rand) Physics, Major (Huff) Chemistry, Minor (Crenshaw) Geology, Minor (Bissell) Biology, Major (Tennent)</p> <p>The Short Story (Crandall)</p> <p>Minor Arts (G. G. King) Record Keeping (Kingsbury)</p> <p>Roman Elegy (Wheeler) Spanish (De Haan) History, French Revolution (David)</p> <p>Greek Seminary, Attic Tragedy (Sanders), 3-4.30 Seminary in English Literature (Chew), 3-4.30 French Literature (Pardé), 3-4.30 Philosophical Journal Club (Theodore de Laguna, Grace de Laguna, and Sabin), 3-4.30</p>	<p>Psychology, Major (Rand) Physics, Major (Huff) Chemistry, Minor (Crenshaw) Geology, Minor (Bissell) Biology, Major (Tennent)</p> <p>Roman Elegy (Wheeler) Spanish (De Haan) History, French Revolution (David)</p> <p>English Journal Club (Donnelly, Chew, Sav- age, Crandall and Prokosch), 3-4.30. Alternate Weeks Gothic Romance Languages Journal Club (Schenck, Pardé, Riddell, De Haan and Dorado), 3-4.30. Alternate Weeks Archæological Journal Club (Carpenter and Swindler), 3-4.30. Alternate Weeks Seminary in Mathematics (Scott), 3-5</p>
<p>in Seminary, Roman Elegy (Wheeler), 4.30-6 inary in English Composition (Crandall), 4-6 iddle High German inary in Modern French Literature (Schenck) nish Seminary (Dorado) inary in American History (W. R. Smith), 4-6</p> <p>inary in Social and Political Philosophy (T. de Laguna), 4-6 inary in Principles and Methods of Education (Castro), 4-6</p> <p>inary in Zoology (Tennent), 4.30-6</p> <p>l High German</p>	<p>Middle English Seminary (Patch), 4.30-6 Seminary in German Literature (Prokosch), 4-6 Semitic Seminary (Barton) Historical Bibliography (David) Seminary in Municipal Government (Frank- lin), 4-6 Social and Industrial Research (Kingsbury), 4-6</p> <p>Journal Club in History of Art (G. G. King), 4.30-6. Alternate Weeks Education Journal Club (Castro and Arlitt), 4.30-6 Mathematics Seminary (Pell)</p> <p>Seminary in Physiology (Brooks), 4.30-6</p> <p>Ethiopic (Barton)</p>	<p>Latin Seminary, Roman Elegy (Wheeler), 4.30-6.</p> <p>Middle High German Romance Philology (—), 4.30-6 Seminary in History of England (David), 4-6 Seminary in Economics (M. P. Smith), 4-6 Seminary in Petrology (Bascom), 4.30-6</p> <p>Seminary in Labour Organization (—), 4-6 Seminary in Social Education (Castro), 4-6</p> <p>Old High German</p>

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BRYN MAWR COLLEGE

CALENDAR

GRADUATE COURSES

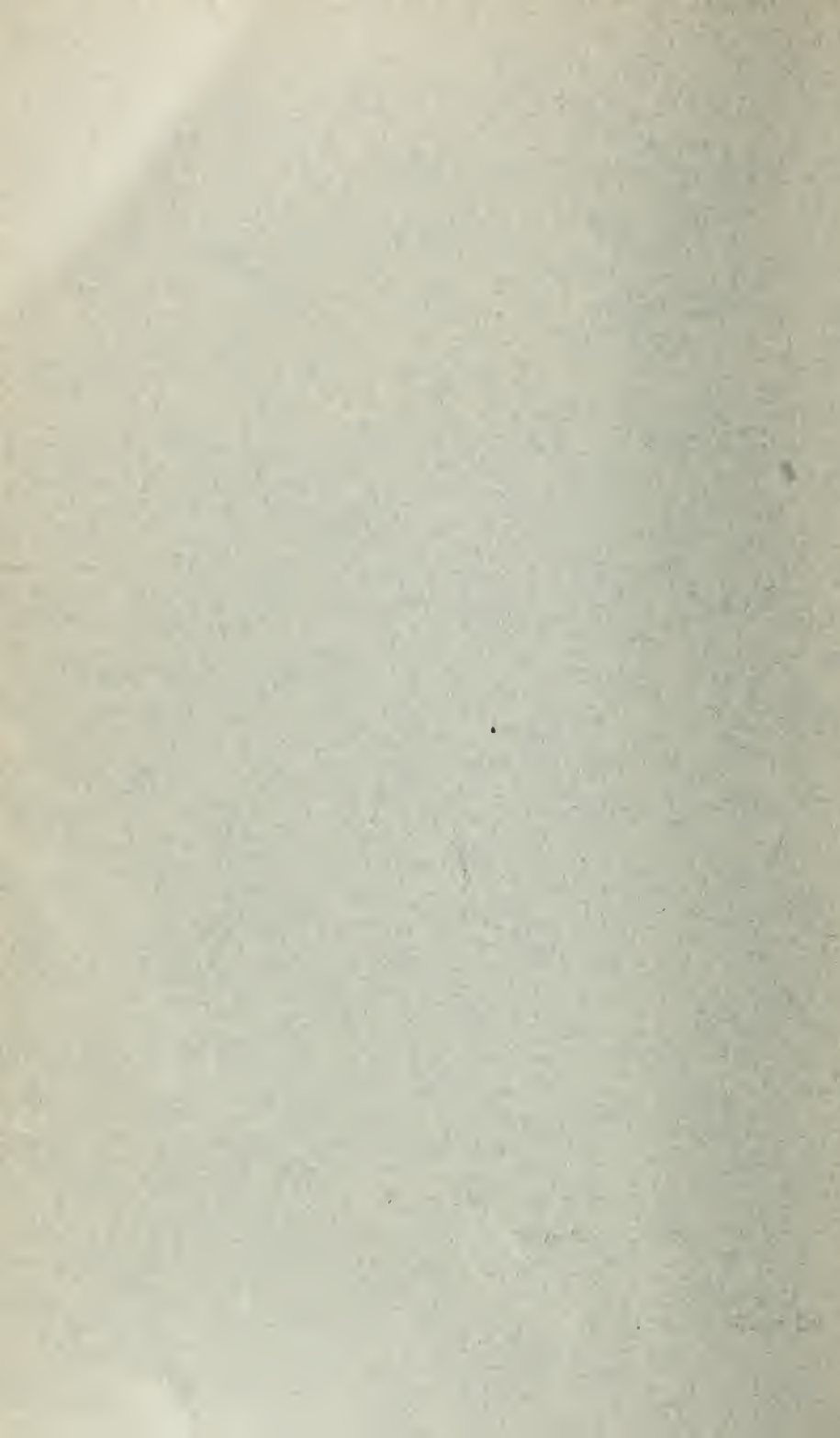
1921



BRYN MAWR, PENNSYLVANIA.

Published by Bryn Mawr College,

March, 1921



BRYN MAWR COLLEGE

CALENDAR

GRADUATE COURSES

1921

BRYN MAWR, PENNSYLVANIA.
Published by Bryn Mawr College.
Vol. XIV. Part 2. March, 1921.

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Philadelphia, Pa.

BRYN MAWR COLLEGE CALENDAR

1921

- PART 1. Announcement of Carola Woerishoffer Department.
- PART 2. Graduate Courses.
- PART 3. Undergraduate and Graduate Courses.
- PART 4. Academic Buildings and Halls of Residence,
Plans and Descriptions.

BRYN MAWR COLLEGE.

COLLEGE CALENDAR.

1921.														1922.														1923.													
JANUARY							JULY							JANUARY							JULY							JANUARY													
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26	27	28	29	30																																					

The academic year will close with the Conferring of Degrees at eleven o'clock, on June 8, 1922.

ACADEMIC YEAR, 1921-22.

September 26th.	Matriculation examinations begin.
October 3rd.	Registration of students. Halls of Residence open for students at three p. m.
October 4th.	Registration of students. Matriculation examinations end.
October 5th.	The work of the thirty-seventh academic year begins at a quarter to nine o'clock.
October 6th.	Examinations for advanced standing begin.
October 8th.	Language examinations for all undergraduates.
October 15th.	Senior examination in French. Language examinations for Juniors. M.A. Language examinations.
October 22nd.	Senior examination in German.
October 27th.	Examinations for advanced standing end.
November 14th.	Collegiate and matriculation condition examinations begin.
November 19th.	M.A. Language examinations.
November 22nd.	Collegiate and matriculation condition examinations end.
November 23rd.	Thanksgiving vacation begins at one o'clock.
November 28th.	Thanksgiving vacation ends at nine o'clock.
December 10th.	Senior examination in French. Ph.D. Language examinations.
December 17th.	Senior examination in German.
December 21st.	Christmas vacation begins at one o'clock.
January 5th.	Christmas vacation ends at nine o'clock.
January 18th.	Matriculation examinations begin.
January 24th.	Matriculation examinations end. Ph.D. Language examinations.
January 25th.	Half-yearly collegiate examinations begin.
February 4th.	Collegiate examinations end. Annual meeting of the Alumnae Association.
February 6th.	Vacation.
February 7th.	Vacation.
February 8th.	The work of the second semester begins at a quarter to nine o'clock.
February 9th.	Examinations for advanced standing begin.
March 2nd.	Examinations for advanced standing end.
March 11th.	Senior examination in French.
March 17th.	Announcement of European Fellowships.
March 18th.	Senior examination in German.
March 20th.	Collegiate and matriculation condition examinations begin.
March 22nd.	Mid-semester examination in matriculation Greek.
March 28th.	Collegiate and matriculation condition examinations end.

March 29th.	Spring vacation begins at one o'clock.
April 5th.	Spring vacation ends at nine o'clock.
April 8th.	Ph.D. Language examinations.
April 14th.	Good Friday. Vacation.
May 13th.	Senior examinations in French and German.
May 23rd.	Vacation.
May 24th.	Collegiate examinations begin.
May 30th.	Matriculation examinations begin.
June 3rd.	Collegiate examinations end.
June 6th.	Matriculation examinations end.
June 8th.	Conferring of degrees and close of thirty-seventh academic year.

ACADEMIC YEAR, 1922-23.

September 25th.	Matriculation examinations begin.
October 2nd.	Registration of students. Halls of Residence open for students at three p. m.
October 3rd.	Registration of students.
	Matriculation examinations end.
October 4th.	The work of the thirty-eighth academic year begins at a quarter to nine o'clock.
October 5th.	Examinations for advanced standing begin.
October 7th.	Language examinations for all undergraduates.
October 14th.	Senior examination in French.
	Language examinations for Juniors.
	M.A. Language examinations.
October 21st.	Senior examination in German.
October 26th.	Examinations for advanced standing end.
November 20th.	Collegiate and matriculation condition examinations begin.
November 25th.	M.A. Language examinations.
November 28th.	Collegiate and matriculation condition examinations end.
November 29th.	Thanksgiving vacation begins at one o'clock.
December 4th.	Thanksgiving vacation ends at nine o'clock.
December 9th.	Senior examination in French.
	Ph.D. Language examinations.
December 16th.	Senior examination in German.
December 21st.	Christmas vacation begins at one o'clock.
January 6th.	Christmas vacation ends at nine o'clock.
January 17th.	Matriculation examinations begin.
January 23rd.	Ph.D. Language examinations.
	Matriculation examinations end.
January 24th.	Half-yearly collegiate examinations begin.
February 3rd.	Collegiate examinations end.
	Annual meeting of the Alumnae Association.

February 5th.	Vacation.
February 6th.	Vacation.
February 7th.	The work of the second semester begins at a quarter to nine o'clock.
February 8th.	Examinations for advanced standing begin.
March 1st.	Examinations for advanced standing end.
March 10th.	Senior examination in French.
March 16th.	Announcement of European Fellowships.
March 17th.	Senior examination in German.
March 19th.	Collegiate and matriculation condition examinations begin.
March 21st.	Mid-semester examination in matriculation Greek.
March 27th.	Collegiate and matriculation condition examinations end.
March 28th.	Easter vacation begins at one o'clock.
April 5th.	Easter vacation ends at nine o'clock.
April 7th.	Ph.D. Language examinations.
May 12th.	Senior examinations in French and German.
May 22nd.	Vacation.
May 23rd.	Collegiate examinations begin.
May 29th.	Matriculation examinations begin.
June 2nd.	Collegiate examinations end.
June 5th.	Matriculation examinations end.
June 7th.	Conferring of degrees and close of thirty-eighth academic year.

OFFICERS OF ADMINISTRATION.

ACADEMIC YEAR, 1920-21.

*President,*M. CAREY THOMAS, PH.D., LL.D., L.H.D.
Office: Taylor Hall.*Dean of the College,*

HELEN TAFT MANNING,* M.A.

*Acting Dean of the College,*HILDA WORTHINGTON SMITH, M.A.
Office: Taylor Hall.*Recording Dean and Assistant to the President,*ISABEL MADDISON, B.Sc., PH.D.
Office: Taylor Hall.*Secretary and Registrar of the College,*

EDITH ORLADY, A.B. Office: Taylor Hall.

Assistant to the Secretary and Registrar of the College,

MARIAN CLEMENTINE KLEPS, A.B. Office: Taylor Hall.

Wardens of the Halls of Residence,

MARTHA GIBBONS THOMAS, A.B., Pembroke Hall.

LESLIE RICHARDSON, A.B., Radnor Hall.

HANNAH THAYER CARPENTER, A.B., Denbigh Hall.

ELEANOR LOUISA LORD, PH.D., Rockefeller Hall.

MARGARET WENTWORTH BROWNE, Merion Hall.

Comptroller,

SANDY LEE HURST. Office: Taylor Hall.

Business Manager,

EDITH ADAIR, A.B. Office: Taylor Hall.

Assistant Business Manager,

CHARLOTTE HANNAH WESTLING, A.B. Office: Taylor Hall.

Junior Bursar,

HARRIET JEAN CRAWFORD, A.B. Office: Cartref.

Librarian,

LOIS ANTOINETTE REED, A.B., B.L.S. Office: The Library.

Director of Athletics and Gymnastics and Supervisor of Health,

CONSTANCE M. K. APPLEBEE. Office: The Gymnasium.

Physician-in-Chief,

THOMAS F. BRANSON, M.D. Rosemont, Pa.

*Assistant Resident Physician,*JANE SANDS, M.D., 1905 Infirmary, Bryn Mawr; Office: The Infirmary,
Bryn Mawr College.*Examining Oculist,*

HELEN MURPHY, M.D. 1408 Spruce Street, Philadelphia.

* Resigned November 19, 1920.

ACADEMIC APPOINTMENTS.

ACADEMIC YEAR, 1920-21.

M. CAREY THOMAS, PH.D., LL.D., L.H.D., *President of the College and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78; University of Leipzig, 1879-82; Ph.D., University of Zurich, 1882. Student in the Sorbonne and Collège de France, 1883; Dean of the Faculty of Bryn Mawr College and Professor of English, 1885-94.

HELEN HERRON TAFT MANNING,* *Dean of the College.*

A.B., Bryn Mawr College, 1915; A.M., Yale University, 1916. Graduate Student, Yale University, 1915-17.

HILDA WORTHINGTON SMITH, A.M., *Acting Dean of the College.*

A.B., Bryn Mawr College, 1910, and A.M., 1911. Graduate Student, Bryn Mawr College, 1910-11; New York School of Philanthropy, 1912-13, 1914-15; Columbia University, 1914-15; Warden of Rockefeller Hall, 1913-14; Volunteer Social Worker, 1915-16; Director of Bryn Mawr Community Centre, 1916-19.

ISABEL MADDISON, B.Sc., PH.D., *Recording Dean and Assistant to the President.*

Reading, England. B.Sc., University of London, 1893; Ph.D., Bryn Mawr College, 1896, and B.A., Trinity College, Dublin, 1905; Girton College, University of Cambridge, England, 1889-92; Graduate in Honours, First Class, in the Cambridge Mathematical Tripos, 1892; Graduate in Honours, Final Mathematical Schools, University of Oxford, 1892; Graduate Student in Mathematics, Bryn Mawr College, 1892-93, and Fellow in Mathematics, 1893-94; Holder of the Mary E. Garrett European Fellowship and Student in Mathematics, University of Göttingen, 1894-95.

CHARLOTTE ANGAS SCOTT, D.Sc., *Alumna Professor of Mathematics.*

Lincoln, England. Graduate in Honours, Girton College, University of Cambridge, England, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, 1880-84; lectured in connection with Newnham College, University of Cambridge, England, 1880-83; D.Sc., University of London, 1885.

GEORGE A. BARTON, PH.D., LL.D., *Professor of Biblical Literature and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; studied under the direction of the American Institute of Hebrew, 1885-86; Harvard University, 1888-91; Thayer Scholar, Harvard University, 1889-91; A.M., Harvard University, 1890; Ph.D., Harvard University, 1891. Director of the American School of Oriental Study and Research in Palestine, 1902-03; LL.D., Haverford College, 1914.

FLORENCE BASCOM, PH.D., *Professor of Geology.*

A.B., University of Wisconsin, 1882, B.Sc., 1884, and A.M., 1887. Johns Hopkins University, 1891-93; Ph.D., Johns Hopkins University, 1893. Assistant in Geology and Instructor in Petrography, Ohio State University, 1893-95.

WILMER CAVE WRIGHT,† *Ph.D., Professor of Greek.*

Shrewsbury, England. Girton College, University of Cambridge, England, 1888-92; Graduate in Honours, Cambridge Classical Tripos, 1892; Ph.D., University of Chicago, 1895. Fellow in Greek, Bryn Mawr College, 1892-93; Fellow in Latin, University of Chicago, 1893-94, and Fellow in Greek, 1894-95; Reader in Greek and Latin, University of Chicago, 1895-96.

JAMES H. LEUBA,‡ *Ph.D., Professor of Psychology.*

Neuchâtel, Switzerland. B.S., University of Neuchâtel, 1886; Ph.D., Ursinus College, 1888; Scholar in Psychology, Clark University, 1892-94; Fellow in Psychology, Clark University, 1893-95; Ph.D., Clark University, 1896.

* Resigned November, 19, 1920.

† Granted leave of absence for the year 1920-21.

‡ Granted leave of absence for the year 1921-22.

FONGER DEHAAN, PH.D., *Professor of Spanish.*

Leeuwarden, Holland. Ph.D., Johns Hopkins University, 1895; Instructor in Modern Languages, Lehigh University, 1885-91; Fellow in Romance Languages, Johns Hopkins University, 1893-94, Assistant in Romance Languages, 1893-95, Instructor in Romance Languages, 1895-96, and Associate in Romance Languages, 1896-97.

ARTHUR LESLIE WHEELER,* PH.D., *Alumnæ Professor of Latin.*

A.B., Yale University, 1893; Scholar and Student in Classics, Yale College, 1893-96; Ph.D., Yale University, 1896. Instructor and Tutor in Latin, Yale College, 1894-1900.

HENRY NEVILL SANDERS, PH.D., *Alumnæ Professor of Greek.*

Edinburgh, Scotland. A.B., Trinity University, Toronto, 1894, and A.M., 1897; Ph.D., Johns Hopkins University, 1903. Fellow in Greek, Johns Hopkins University, 1897-98; Lecturer in Greek, McGill University, 1900-02.

WILLIAM BASHFORD HUFF, PH.D., *Professor of Physics.*

A.B., University of Wisconsin, 1889; A.M., University of Chicago, 1896; Ph.D., Johns Hopkins University, 1900. Lecture Assistant in Physics, Johns Hopkins University, 1899-1900, Assistant in Physics, 1900-01, and Instructor in Physics, 1901-02.

WILLIAM ROY SMITH, PH.D., *Professor of History.*

A.B., University of Texas, 1897, and A.M., 1898; Ph.D., Columbia University, 1903. Acting Professor of History and Political Science, University of Colorado, 1900-01; Lecturer in History, Barnard College, 1901-02.

LUCY MARTIN DONNELLY, A.B., *Mary Elizabeth Garrett Memorial Alumnæ Professor of English.*

A.B., Bryn Mawr College, 1893; University of Oxford, England, and University of Leipsic, 1893-94; Sorbonne and Collège de France, and University of Leipsic, 1894-95.

DAVID HILT TENNENT, PH.D., *Professor of Biology.*

S.B., Olivet College, 1900; Ph.D., Johns Hopkins University, 1904. Fellow, Johns Hopkins University, 1902-04; Bruce Fellow, Johns Hopkins University, 1904.

CARLETON FAIRCHILD BROWN, PH.D., *Professor (elect) of English Philology.*

A.B., Carleton College, 1888; A.M., Harvard University, 1901, and Ph.D., 1903. Shattuck Scholar, Harvard University, 1901-03; Instructor in English, Harvard University, 1903-05; Associate in English Philology, Bryn Mawr College, 1905-07; Associate Professor, 1907-10, and Professor, 1910-17; Professor of English, University of Minnesota, 1917-21; Exchange Professor, University of Oxford, 1919-20.

JAMES BARNES, PH.D., *Professor of Physics.*

Halifax, Nova Scotia. B.A., Dalhousie University, Honours in Mathematics and Physics, 1899, and M.A., 1900; Ph.D., Johns Hopkins University, 1904. Holder of 1851 Exhibition Science Research Scholarship, 1900-03; Fellow, Johns Hopkins University, 1903-04, and Assistant in Physics, 1904-06; Resident Fellow, University of Manchester, 1915.

THEODORE DE LEO DE LAGUNA,* PH.D., *Professor of Philosophy.*

A.B., University of California, 1896, and A.M., 1899; Ph.D., Cornell University, 1901. Teacher in the Government Schools of the Philippine Islands, 1901-04; Honorary Fellow and Assistant in Philosophy, Cornell University, 1904-05; Assistant Professor of the Philosophy of Education, University of Michigan, 1905-07.

MARION PARRIS SMITH, PH.D., *Professor of Economics.*

A.B., Bryn Mawr College, 1901, and Ph.D., 1908. Graduate Student, Bryn Mawr College, 1902-05, Fellow in Economics and Politics, 1905-06; Bryn Mawr College Research Fellow and Student in Economics and Politics, University of Vienna, 1906-07.

CLARENCE ERROL FERREE, PH.D., *Professor of Experimental Psychology and Director of the Psychological Laboratory.*

B.S., Ohio Wesleyan University, 1900, A.M., 1901, and M.S., 1902; Ph.D., Cornell University, 1909. Fellow in Psychology, Cornell University, 1902-03; Assistant in Psychology, Cornell University, 1903-07.

GRACE MEAD ANDRUS DE LAGUNA,* PH.D., *Associate Professor of Philosophy.*

A.B., Cornell University, 1903, and Ph.D., 1906. Sage Scholar in Philosophy, Cornell University, 1903-05; Alice Freeman Palmer Fellow in Wellesley College, 1905-06; Reader in Philosophy, Bryn Mawr College, 1907-08.

* Granted leave of absence for the year 1921-22.

REGINA KATHARINE CRANDALL, Ph.D., *Margaret Kingsland Haskell Professor of English Composition.*

A.B., Smith College, 1890; Ph.D., University of Chicago, 1902. Graduate Student, University of Chicago, 1893-94, and Fellow in History, 1894-96; Assistant in History, Smith College, 1896-99; Instructor in History, Wellesley College, 1899-1900.

EDITH ORLADY, A.B., *Secretary and Registrar of the College.*

A.B., Bryn Mawr College, 1902. Warden of Pembroke Hall West, 1903-05, and Warden of Rockefeller Hall, 1905-06; Graduate Student, University of Grenoble, 1906-07; Bryn Mawr College, 1903-06, 1907-09. Recording Secretary and Appointment Secretary, 1910-12.

ROGER FREDERIC BRUNEL, Ph.D., *Professor of Chemistry.*

A.B., Colby University, 1903; Ph.D., Johns Hopkins University, 1906. Lecture Assistant in Chemistry, Johns Hopkins University, 1906-07; Instructor in Chemistry, Syracuse University, 1907-10, and Assistant Professor of Chemistry, 1910-12.

MATILDE CASTRO,* Ph.D., *Phebe Anna Thorne Professor of Education and Director of the Phebe Anna Thorne Model School.*

A.B., University of Chicago, 1900, and Ph.D., 1907. Fellow in Philosophy, University of Chicago, 1900-01, 1903-04, 1905-06. Principal of the High School, Morris, Ill., 1901-03; Instructor in Philosophy, Mount Holyoke College, 1904-05; Instructor in Philosophy, Vassar College, 1906-09; Professor and Head of the Department of Philosophy, Rockford College, 1910-12.

GERTRUDE RAND, Ph.D., *Associate in Experimental and Applied Psychology.*

A.B., Cornell University, 1908; Ph.D., Bryn Mawr College, 1911. Graduate Scholar in Psychology, Bryn Mawr College, 1908-09, 1911-12, Fellow in Philosophy, 1909-10, Fellow in Psychology, 1910-11, and Sarah Berliner Research Fellow, 1912-13.

EUNICE MORGAN SCHENCK, Ph.D., *Associate Professor of French.*

A.B., Bryn Mawr College, 1907, and Ph.D., 1913. Graduate Student, Bryn Mawr College, 1909, Graduate Scholar, 1909-10, and Fellow in Romance Languages, 1912-13; President's European Fellow and Student, the Sorbonne, Collège de France, University of Grenoble, and in Madrid, 1910-12; Dean of the College, Bryn Mawr College, 1916-17.

SAMUEL CLAGGETT CHEW,* Ph.D., *Professor of English Literature.*

A.B., Johns Hopkins University, 1909, and Ph.D., 1913. Fellow, Johns Hopkins University, 1910-12; English Master, Hotchkiss School, Lakeville, Conn., 1913-14.

SUSAN MYRA KINGSBURY,* Ph.D., *Carola Woerishoffer Professor of Social Economy and Director of the Carola Woerishoffer Department of Social Research.*

A.B., College of the Pacific, 1890; A.M., Leland Stanford Jr. University, 1899; Ph.D., Columbia University, 1905. University Fellow, Columbia University, 1902-03; Holder of the European Fellowship of the Women's Education Association, Boston, Mass., 1903-04; Instructor in History, Vassar College, 1904-05; Director of Investigation, Massachusetts Commission on Industrial and Technical Education, 1905-06; Instructor in History and Economics and Head of Departments, Simmons College, 1906-07; Assistant, Associate, and Professor in Economics, Simmons College and Director of the Department of Research, Women's Educational and Industrial Union, Boston, 1907-15.

GEORGIANA GODDARD KING, A.M., *Professor of the History of Art.*

A.B., Bryn Mawr College, 1896, and A.M., 1897. Fellow in Philosophy, Bryn Mawr College, 1896-97, and Fellow in English, 1897-98; Collège de France, First Semester, 1898-99.

RHYS CARPENTER, Ph.D., *Professor of Classical Archaeology.*

A.B., Columbia University, 1909, and Ph.D., 1916; B.A., University of Oxford, 1911, and M.A., 1914. Rhodes Scholar and Student, Balliol College, University of Oxford, 1908-11; Drieler Fellow in Classics, Columbia University, 1911-13; Student, American School of Classical Studies in Athens, 1912-13; Absent for Military Service, 1917-19.

CHARLES GHEQUIERE FENWICK, Ph.D., *Professor of Political Science.*

A.B., Loyola College, 1907; Ph.D., Johns Hopkins University, 1912. Student of Political Science, Johns Hopkins University, 1909-11; Law Clerk, Division of International Law in the Carnegie Endowment for International Peace, 1911-14; University of Freiburg, Summer, 1913, Lecturer on International Law, Washington College of Law, 1912-14.

* Granted leave of absence for the year 1921-22.

HOWARD LEVI GRAY, PH.D., *Professor of History.*

A.B., University of Rochester, 1897; A.B., Harvard University, 1898, A.M., 1900, and Ph.D., 1907. Instructor in History, Harvard University, 1909-13, and Assistant Professor of History, 1914-15. Absent on War Service, 1918-19.

JAMES LEWELLYN CRENSHAW, PH.D., *Associate Professor of Physical Chemistry.*

A.B., Centre College, 1907, and A.M., 1908; Ph.D., Princeton University, 1911. Assistant Chemist in the Geo-Physical Laboratory of the Carnegie Institution, Washington, D. C., 1910-15. Absent for Military Service, 1917-19.

HOWARD JAMES SAVAGE, PH.D., *Associate Professor of Rhetoric and Director of the Work in English Composition.*

A.B., Tufts College, 1907; A.M., Harvard University, 1909, and Ph.D., 1915. Instructor in English, Tufts College, 1908-11; Instructor in English, Harvard University, 1911-13, and at Radcliffe College, 1911-15; Graduate Student, Harvard University, 1908-09; 1913-15; Instructor in the Harvard Summer School, 1912, 1913, 1914, 1915. Absent for Military Service, 1917-19.

ETHEL ERNESTINE SABIN, PH.D., *Associate in Philosophy.*

A.B., University of Wisconsin, 1908, and A.M., 1914; Ph.D., University of Illinois, 1916. Graduate Scholar, University of Wisconsin, 1913-14; Fellow, University of Illinois, 1914-16; Assistant in English, University of Illinois, 1916-17.

ADA HART ARLITT, PH.D., *Associate in Educational Psychology.*

A.B., H. Sophie Newcomb Memorial College of Tulane University, 1913; Ph.D., University of Chicago, 1917. Fellow in Biology, H. Sophie Newcomb Memorial College, 1913-14; Fellow in Psychology, University of Chicago, 1914-16; Fellow in Sprague Institute, 1916-17.

SAMUEL ARTHUR KING, M.A., *Non-resident Lecturer in English Diction.*

Tynemouth, England. M.A., University of London, 1900. Special Lecturer in Public Speaking, Johns Hopkins University, 1901; Special Lecturer in Speech, University of California, 1902.

ANNA JOHNSON PELL, PH.D., *Associate Professor of Mathematics.*

A.B., University of South Dakota, 1903; M.S., University of Iowa, 1904; A.M., Radcliffe College, 1905; Ph.D., University of Chicago, 1910; Holder of Alice Freeman Palmer Fellowship of Wellesley College and Student in Mathematics, University of Göttingen, 1906-07; Instructor in Mathematics, Mount Holyoke College, 1911-14, and Associate Professor of Mathematics, 1914-18.

CHARLES WENDELL DAVID, PH.D., *Associate Professor of History.*

B.A., Oxford University, 1911; A.M., University of Wisconsin, 1912; Ph.D., Harvard University, 1918; Rhodes Scholar, University of Oxford, 1908-11. Instructor in History, University of Washington, 1915-18.

AGNES RUTHERFORD RIDDELL, PH.D., *Associate in Italian.*

A.B., University of Toronto, 1896, with first class honours in Modern Languages; and A.M., 1897. Honours, Ontario Normal College, 1898. Ph.D., University of Chicago, 1916. Teacher of French and German, Oshawa High School, 1898-1901; Assistant Reader, Department of English, University of Toronto, 1902-11; Teacher of English, Branksome Hall, Toronto, 1904-05; Teacher of German, Latin and English, Westbourne School, Toronto, 1906-10, 1913-14; Graduate Student in Romance Languages, University of Chicago, January, 1912, to August, 1913; Fellow in Romance Languages, University of Chicago, 1914-15; Acting Head of Kelly Hall, University of Chicago, summers of 1913, 1914 and 1915; Professor of Romance Languages, and Dean of Women, College of Emporia, 1915-17.

MARCELLE PARDÉ, *Agrégée des Lettres, Associate in French.*

Beauvais, Oise, France. Ecole Normale Supérieure de Sévres, 1911-14. Teacher in the Lycée, Chaumont, Haute Marne, 1915-19; Student, the Sorbonne, 1911-16; Agrégée des lettres, University of Paris, 1917.

HORACE WETHERILL WRIGHT, PH.D., *Associate in Latin.*

A.B., University of Wisconsin, 1908; Ph.D., University of Pennsylvania, 1917. Wisconsin University, 1910-11; University of Pennsylvania, 1911-13; American School of Classical Studies in Rome, 1914-15; Instructor in Latin, University of Missouri, 1917-18; Instructor in Latin, Oberlin College, 1918-19.

EDUARD PROKOSCH, Ph.D., *Associate Professor of German.*

Prague, Bohemia. University of Prague, 1894-95; University of Vienna, 1895-97; University of Chicago, 1899-1904; *Staats Examen*, 1897; A.M., University of Chicago, 1901; University of Leipzig, 1904-05; Ph.D., University of Leipzig, 1905. Instructor in German, Francis W. Parker School and School of Education, University of Chicago, 1901-02. Instructor in German Department, University of Chicago, 1902-04; University of Wisconsin, 1905-09. Assistant Professor of German and Comparative Philology, University of Wisconsin, 1909-13; Professor of Germanic Philology, University of Texas, 1913-19.

ANNA BAKER YATES, Ph.D., *Associate in Physiology and Biochemistry.*

A.B., Mount Holyoke College, 1913; M.A., Columbia University, 1915; Ph.D., Columbia University, 1920. Assistant in Chemistry, Barnard College, 1913-15; Instructor in Physiology, Mount Holyoke College, 1915-17; Scientific Assistant, U. S. Public Health Service, August to December, 1917; Teaching Fellow, in Physiology, University of Minnesota, 1917-18; Member of Instructing Staff, Training Course for Health Officers, Mount Holyoke College, 1919; Special Investigator, Industrial Service Section, Chicago District Ordnance Department, 1918-19; Instructor in Physiology, Wellesley College, 1919-20.

CLAUDE GILLI, B.A., *Associate Professor of French.*

Nice, France. B.A., London University, First Class Honours, 1909; Rothschild Prizeman in Romance Philology, University College; Lecturer in Romance Philology, East London College, 1910-13; and in Westfield College, 1912-14; Lecturer, University of Montpellier, 1917-20.

FRANZ SCHRADER,* Ph.D., *Associate in Biology.*

B.S., Columbia University, 1914, and Ph.D., 1919. Scientist for the Bureau of Fisheries, Department of Commerce, Washington, D. C., 1915-16 and summer of 1917; and Pathologist, 1919 to January 31, 1921. Assistant in Zoology, Columbia University, 1918-19.

MARY HAMILTON SWINDLER, Ph.D., *Associate in Latin and Classical Archaeology.*

A.B., University of Indiana, 1905, and A.M., 1906; Ph.D., Bryn Mawr College, 1912. Graduate Scholar in Greek, Bryn Mawr College, 1906-07, and Fellow in Greek, 1907-09; Mary E. Garrett European Fellow and Student, Universities of Berlin and Oxford and the American School of Classical Studies in Athens, 1909-10; Teacher in the Misses Shipley's School, Bryn Mawr, 1910-11, in Miss Wright's School, Bryn Mawr, 1911-12, and in the Phebe Anna Thorne Model School, 1914-17.

EVA WHITING WHITE, B.S., *Non-resident Lecturer in Social Economy (Community Organization).*

B.S., Simmons College, 1907. Head Resident, Elizabeth Peabody House, Boston, Mass., 1909—; Massachusetts Board of Education, in charge of Vocational Education for Women and Girls, 1910-14; Staff Lecturer, Boston School for Social Work, 1912-14; Massachusetts Homestead Commission, 1916—; Massachusetts Immigration Commission, 1916; Survey of Public Schools, Gary, Ind., 1916; Vice-Chairman, Federal Commission on Living Conditions, 1917-19; Director of Training, Intercollegiate Community Service Association, 1919—.

NEVA DEARDORFF, Ph.D., *Non-resident Lecturer and Associate Professor (lect) in Social Economy (Social Relief).*

A.B., University of Michigan, 1908; Ph.D., University of Pennsylvania, 1911; Fellow, University of Pennsylvania, 1908-11. Staff, Assistant Director, Bureau of Municipal Research, Philadelphia, 1912-18; Chief, Department of Vital Statistics, City of Philadelphia, 1914-16; Assistant to Director-General of Civilian Relief, American Red Cross, 1918—.

HENRIETTA ADDITON, M.A., *Non-resident Lecturer in Social Economy (Social Guardianship).*

A.B., Piedmont College, 1907; M.A., University of Pennsylvania, 1911; Fellow, University of Pennsylvania, 1910-11, 1912-13. Instructor, History and Civics, Piedmont College, 1908-10; Agent, Philadelphia Society for Organizing Charity, 1913-14; Probation Officer and Case Supervisor, Philadelphia Municipal Court, 1914-16; In Charge, Probation Department, Juvenile Court, 1917; Assistant Director and Director, Section on Women and Girls, Law Enforcement Division, Commission on Training Camp Activities, War Department, 1918-19; Executive Assistant and Director, Field Service, Women and Girls, United States Interdepartmental Social Hygiene Board, 1919—.

* Appointment to take effect from February 2, 1921.

JOAQUÍN ORTEGA,* M.A., *Lecturer in Spanish.*

Madrid, Spain. M.A., University of Wisconsin, 1917. Graduate Fellow of the Spanish Government in the United States for the Study of "International Commercial Policies," 1915-16; Certificate conferring honorary standing of Assistant Professor in Spanish Institutions, Madrid, 1916; Graduate Fellow, 1916-17; Graduate Student, University of Wisconsin, 1916-20; Assistant in Romance Languages, 1916-17; Instructor, 1917-18; and Assistant Professor, 1918-20; Instructor and Lecturer in Spanish, University of Chicago, Summer Quarter, 1918; Lecturer in Extension Division, University of Wisconsin, 1917-20; Secretary of the Delegation of the "Junta para Ampliación de Estudios" in the United States, and Director of the Spanish Bureau of the Institute of International Education, New York City, 1920

GEORGE CYRIL ARMSTRONG,† B.A., *Lecturer in Greek.*

Harpenden, England. B.A., First Class Honours in Classics and Ancient Philosophy and Chancellor's Classical Medallist, University of Cambridge, 1898; Teacher of Greek Composition, St. Paul's School, London, 1900-04; Assistant Lecturer in Latin, University of Liverpool, 1904-06; Teacher of Latin and Greek, St. George's School, Harpenden, 1907-19; and Liverpool Collegiate School, 1919-20.

ESTHER CLOUDMAN DUNN, A.B., *Instructor in English Composition.*

A.B., Cornell University, 1913. Lecturer in English, Maine State Summer School, 1914. Graduate Student in English, Bryn Mawr College, 1915-17; appointed Fellow in English, 1917-18; Instructor in English Composition and Acting Director of the Work in First and Second Year English Composition, 1917-19; Graduate Student, Bedford College and University of London, 1919-20.

MARJORIE LORNE FRANKLIN, A.M., *Instructor in Economics and Politics.*

A.B., Barnard College, 1913, and A.M., Columbia University, 1916. Graduate Scholar, Bryn Mawr College, 1913-14, and Fellow in Economics, 1914-15; Columbia University, 1915-16; Library Assistant, American Telephone and Telegraph Co., 1916-17; Instructor in Political Science, Vassar College, 1917-18.

HELEN E. FERNALD, A.B., *Instructor in History of Art.*

A.B., Mount Holyoke College, 1914. Teachers' College, 1916-18; Scientific Artist and Research Assistant, Columbia University, 1915-18.

MARY AGNES QUIMBY, Ph.D., *Instructor in German.*

A.B., Bryn Mawr College, 1906; A.M., Cornell University, 1916; Ph.D., University of Pennsylvania, 1918; Teacher of German and History in the Berwyn High School, 1907-14; Graduate Student, Cornell University, 1915-16; Pepper Fellow in Germanics, University of Pennsylvania, 1916-18.

MALCOLM HAVENS BISSELL, A.M., *Instructor in Geology.*

Ph.B., Yale University, 1911, and A.M., 1918; Instructor in Engineering, University of Pittsburgh, 1913-14; Assistant in Geography, Yale University, 1917-18; with Connecticut Geological Survey, 1917.

SUE AVIS BLAKE, M.A., *Instructor in Physics.*

A.B., Bryn Mawr College, 1898, and M.A., 1900. Demonstrator and Graduate Student in Physics, Bryn Mawr College, 1898-99, and 1904-06, and Fellow in Physics, 1906-07; Graduate Student, Bryn Mawr College, and Teacher of Mathematics and Science in the Misses Shipley's School, Bryn Mawr, 1899-1900; Assistant in Physics, Smith College, 1900-02, 1903-04; Fellow in Physics, University of Pennsylvania, 1907-08; Instructor in Physics, Smith College, 1910-15, Bryn Mawr College, 1918-19.

CAROLINA MARCIAL DORADO,‡ M.A., *Instructor in Spanish.*

A.B., Instituto Cardenal Cisneros, University of Madrid, 1907; M.A., University of Pennsylvania, 1920. Graduate Student, Wellesley College, 1909-10; University of Porto Rico, 1914-16; University of Madrid, Summer School, 1913; Columbia University, 1918-19, and University of Pennsylvania, 1918-20; Instructor in Spanish, Wellesley College, 1907-11; Assistant Professor of Spanish Literature, University of Porto Rico, 1911-17; Head of the Spanish Department of Ginn and Co., 1917-18, 1920-21.

MARY SINCLAIR CRAWFORD, A.B., *Instructor in French.*

A.B., Wilson College, 1903. Teacher in the Barber Memorial Seminary, Anniston, Ala., 1903-05; and in the Misses Timlow's School, Washington, D. C., 1906; Founder and Co-Principal and Head of French Department, King-Crawford Classical School, Terre Haute, Ind., 1906-16; Dean and Head of French Department, Girtton School, Winnetka, Ill., 1916-18. Executive Secretary, Department of Women in Industry of Pennsylvania Council of National Defense, 1918-19; Community Organizer for War Camp Community Service, 1919; Graduate Student, University of Pennsylvania, 1918-19, 1920-21.

* Substitute for Miss Carolina Marcial Dorado, Instructor in Spanish.

† Substitute for Professor Wilmer Cave Wright, Professor of Greek.

‡ Granted leave of absence for the year 1920-21.

KATHARINE FORBES LIDDLE, A.B., *Instructor in English Composition.*

A.B., Bryn Mawr College, 1910. Teacher of English and Athletics in Lucy Cobb Institute, Athens, Ga., 1910-12; Instructor in English, Miss Madeira's School, Washington, D. C., 1912-14; Graduate Student, University of Oxford, 1914-15; Instructor in English Composition, Wellesley College, 1915-20.

GLADYS BOONE, M.A., *Instructor in Social Economy and Social Research.*

State-in-Trent, England. B.A., University of Birmingham, 1916, and M.A., 1917. Teacher of young employees, especially in connection with the Cadbury Chocolate Factory, and tutor in Economic History in Workers' Educational Association, Birmingham, 1917-19; Holder of Rose Sidgwick Memorial Fellowship at Columbia University, 1919-20.

AMPHILIS T. MIDDLEMORE, B.A., *Instructor in English Composition.*

Worcester, England. University of Oxford, Final Honour School in English Language and Literature, 1916. English Teacher, Worcester Secondary School for Girls, 1918-20.

MARY JANE GUTHRIE, A.M., *Instructor in Biology.*

A.B., University of Missouri, 1916, and A.M., 1918. Assistant in Zoölogy, University of Missouri, 1916-18. Assistant Demonstrator and Honorary Scholar in Biology, Bryn Mawr College, 1918-19.

EDNA EIMER, M.A., *Instructor in English Composition.*

A.B., University of Wisconsin, 1906, and M.A., 1919. Instructor in English, University of Wisconsin, 1918-20.

ABBY KIRK, A.B., *Reader in Elementary Greek.*

A.B., Bryn Mawr College, 1892. Reader in English, Bryn Mawr College, 1892-98; Associate Principal and Teacher of English and Classics in the Misses Kirk's School, Bryn Mawr, 1899-1920.

ANNA MARGUERITE MARIE LEHR, A.B., *Reader in Mathematics.*

A.B., Goncher College, 1919.

MARGARET GEORGIANA MELVIN, M.A., *Reader in English.*

New Brunswick, Canada. A.B., Royal Victoria College, McGill University, with honours in English and Philosophy, 1917, and M.A., 1919. Graduate Scholar in Philosophy, Bryn Mawr College, 1917-18; Fellow in Philosophy, 1918-20.

MARGARET MONTAGUE MONROE, A.B., *Assistant Demonstrator in Experimental Psychology.*

Barnard College, Columbia University, 1911-13. A.B., Mount Holyoke College, 1915. Teacher of French, Commercial High School, Atlanta, Ga., 1915-16; Scholar in Psychology, Bryn Mawr College, 1916-17, and Fellow in Psychology, 1918-20; Teacher of Mathematics in Sneed School, Toledo, Ohio, 1917-18.

MARY L. MORSE, M.S., *Demonstrator in Chemistry.*

B.S., University of Michigan, 1919, and M.S., 1920.

LOUISE LITTIG SLOAN, A.B., *Assistant Demonstrator in Applied Psychology.*

A.B., Bryn Mawr College, 1920.

LOIS ANTOINETTE REED, A.B., B.L.S., *Librarian.*

A.B., University of Illinois, 1909; B.L.S., New York State Library School, 1904. Librarian, The Western College, Oxford, Ohio, 1905-07; Cataloguer and Order Department Assistant, Library of the University of Illinois, 1907-10; Assistant Librarian, University of Rochester, 1910-12.

MARY LOUISE TERRIEN, A.B., *Circulation and Reference Librarian.*

A.B., Smith College, 1905. Simmons College Library School, Boston, Mass., 1914-15.

MARY ISABELLE O'SULLIVAN, A.B., *Head Cataloguer.*

A.B., Bryn Mawr College, 1907; New York State Library School, 1915-16. Private Tutor and Night Librarian, Drexel Institute, 1908-09; Indexer, Estate of Stephen Girard, Philadelphia, 1909-15; Cataloguer, New York Public Library, 1916-17; Scholar in English Composition, Bryn Mawr College, 1917-18.

MAY MORRIS, Ph.B., *Assistant to the Circulation and Reference Librarian.*

Ph.B., Dickinson College, 1909. Pratt Institute School of Library Science, 1917.

BESSIE HOMER JENNINGS, *Assistant Cataloguer.*

Graduate, Drexel Institute Library School, 1900.

CONSTANCE M. K. APPLEBEE, *Director of Athletics and Gymnastics and Supervisor of Health Department.*

Licentiate, British College of Physical Education, 1898, and Member, 1899. Gymnasium Mistress, Girls' Grammar School, Bradford, Yorkshire, 1899-1900; in the Arnold Foster High School, Burnley, Yorkshire, 1899-1901; in the High School, Halifax, Yorkshire, 1900-01; Head of Private Gymnasium, Ilkley, Yorkshire, 1899-1901; Harvard School of Physical Training, summer, 1901; Hockey Coach, Vassar College, Wellesley College, Radcliffe College, Mount Holyoke College, Smith College, Bryn Mawr College, Boston Normal School of Gymnastics, 1901-04; Hockey Coach, Harvard Summer School of Gymnastics, 1906.

CONSTANCE ELEANOR DOWD, A.B., *Assistant Director of Athletics and Gymnastics.*

A.B., Bryn Mawr College, 1916. Secretary to Attending Surgeon, Roosevelt Hospital, 1917-18; Clerk, Ordnance Bureau, War Department, 1918-19.

ADMINISTRATIVE AND EXECUTIVE APPOINTMENTS.

M. CAREY THOMAS, PH.D., LL.D., L.H.D., *President of the College and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78; University of Leipsic, 1879-82; Ph.D., University of Zurich, 1882. Student in the Sorbonne and Collège de France, 1883; Dean of the Faculty of Bryn Mawr College and Professor of English, 1885-94.

HELEN HERRON TAFT MANNING,* A.M., *Dean of the College.*

A.B., Bryn Mawr College, 1915; A.M., Yale University, 1916. Graduate Student, Yale University, 1915-17; Acting President of the College, 1919-20.

HILDA WORTHINGTON SMITH, A.M., *Acting Dean of the College.*

A.B., Bryn Mawr College, 1910, and A.M., 1911. Graduate Student, Bryn Mawr College, 1910-11, New York School of Philanthropy, 1912-13, 1914-15, Columbia University, 1914-15; Warden of Rockefeller Hall, 1913-14; Volunteer Social Worker, 1915-16; Director of Community Centre, Bryn Mawr, 1916-19.

ISABEL MADDISON, B.Sc., PH.D., *Recording Dean and Assistant to the President.*

Reading, England. B.Sc., University of London, 1893; Ph.D., Bryn Mawr College, 1896, and B.A., Trinity College, Dublin, 1905; Girton College, University of Cambridge, England, 1889-92; Graduate in Honours, First Class, in the Cambridge Mathematical Tripos, 1892; Graduate in Honours, Final Mathematical Schools, University of Oxford, 1892; Graduate Student in Mathematics, Bryn Mawr College, 1892-93, and Fellow in Mathematics, 1893-94; Holder of the Mary E. Garrett European Fellowship and Student in Mathematics, University of Göttingen, 1894-95.

EDITH ORLADY, A.B., *Secretary and Registrar of the College.*

A.B., Bryn Mawr College, 1902. Warden of Pembroke Hall West, 1903-05, and Warden of Rockefeller Hall, 1905-06; Graduate Student, University of Grenoble, 1906-07, Bryn Mawr College, 1903-06, 1907-09; Recording Secretary and Appointment Secretary, 1910-12.

MARIAN CLEMENTINE KLEPS, A.B., *Assistant to the Secretary and Registrar.*

A.B., and Bryn Mawr European Fellow, Bryn Mawr College, 1916. Assistant to the Recording Secretary, 1916-17; Reader in Mathematics, 1917-18.

SANDY LEE HURST, *Comptroller.*

EDITH ADAIR, A.B., *Business Manager.*

A.B., Bryn Mawr College, 1909. Teacher of English in the High School for Girls, Brooklyn, N. Y., 1909-19; Warden of Rockefeller Hall, 1919-20.

CHARLOTTE HANNAH WESTLING, A.B., *Assistant Business Manager.*

A.B., Bryn Mawr College, 1917.

JOHN J. FOLEY, *Superintendent of Buildings and Grounds.*

VALERIA H. PARKER, M.D., *Special Lecturer in Social Hygiene.*

A.B., Oxford College, O., 1898. M.D., Hering Medical College, Chicago, 1902; Assistant Educational Director, American Social Hygiene Association; Director, Social Morality Department, National Women's Christian Union; Chairman, Social Hygiene Committee, National League of Women Voters.

* Resigned November 19, 1920.

HALLS OF RESIDENCE.

MARTHA GIBBONS THOMAS, A.B., *Warden of Pembroke Hall.*

A.B., Bryn Mawr College, 1889.

LESLIE RICHARDSON, A.B., *Warden of Radnor Hall.*

A.B., Bryn Mawr College, 1918. Foreign Correspondent, National City Bank, New York City, 1918.

HANNAH THAYER CARPENTER, A.B., *Warden of Denbigh Hall.*

A.B., Bryn Mawr College, 1898. Student and Teacher of Music, 1899-1919. Volunteer Social Worker, 1907-19, and Teacher, Handicraft Club of Providence, R. I., 1914-19; Teacher of Piano at Music School Settlement, New York City, 1911-13.

ELEANOR LOUISA LORD, Ph.D., *Warden of Rockefeller Hall.*

A.B., Smith College, 1887, and A.M., 1890; Ph.D., Bryn Mawr College, 1898. Fellow in History, Bryn Mawr College, 1889-90, 1895-96; Instructor in History, Smith College, 1890-94. Holder of the European Fellowship of the Women's Educational Association of Boston, and Student in History, Newnham College, University of Cambridge, England, 1894-95. Instructor in History, Goucher College, 1897-1901, Associate Professor, 1901-04, and Professor of History, 1904-11; President of the History Teachers' Association of the Middle States and Maryland, and President of the History Teachers' Association of Maryland, 1908-09; Dean of Goucher College, and Professor of History, 1911, 1911-19.

MARGARET WENTWORTH BROWNE, *Warden of Merion Hall.*

Bryn Mawr College, 1896-98; College Settlements' Association Bryn Mawr College Fellow, 1908-09; Assistant Secretary, National Consumers' League, 1909-12; Treasurer of Label Shop, 1912; Confidential Filing Clerk, Navy Department, 1918-19; Secretary, Office of Operations, 1919-20.

HARRIET JEAN CRAWFORD, A.B., *Junior Bursar.*

A.B., Bryn Mawr College, 1902. Chairman of Sectional School Board, 35th Ward, Philadelphia, 1910-16; Warden of Rockefeller Hall, Bryn Mawr College, 1907-11.

HEALTH DEPARTMENT.

HILDA WORTHINGTON SMITH, A.M., *Head of Health Department.*

M. CAREY THOMAS, Ph.D., LL.D., L.H.D., *Ex-officio.*

CONSTANCE M. K. APPLEBEE, *Health Supervisor.*

THOMAS F. BRANSON, M.D., *Physician-in-Chief.*

A.B., Haverford College, 1889; M.D., University of Pennsylvania, 1892. Attending Physician, Bryn Mawr Hospital.

JANE SANDS, M.D., *Assistant Resident Physician.*

A.B., Syracuse University, 1915; M.D., Woman's Medical College of Pennsylvania, 1918. Interne, Philadelphia General Hospital, 1919-20; Licentiate, National Board of Medical Examiners, 1920; Special Lecturer in Hygiene, Virginia State Board of Health, Summer, 1920.

HELEN MURPHY, M.D., *Examining Oculist.*

M.D., Woman's Medical College of Pennsylvania, 1893; Assistant Demonstrator in Histology, Woman's Medical College of Pennsylvania, 1894-96; Instructor in Materia Medica, 1896-1902; Instructor in Diseases of the Eye, Philadelphia Polyclinic and College for Graduates in Medicine, 1895-97.

The following physicians have consented to serve as consultants:

THOMAS McCRAE, M.D., F.R.C.P., 1627 Spruce Street, Philadelphia, *Consultant Physician.*

GEORGE E. DE SCHWEINITZ, M.D., 1705 Walnut Street, Philadelphia, *Consultant Oculist.*

ROBERT G. LE CONTE, M.D., 2000 Spruce Street, Philadelphia, *Consultant Surgeon.*

ARTHUR E. BILLINGS, M.D., 1703 Spruce Street, Philadelphia, *Consultant Surgeon*.

FRANCIS R. PACKARD, M.D., 302 South 19th Street, Philadelphia, *Consultant Aurist and Laryngologist*.

JAMES K. YOUNG, M.D., 222 South 16th Street, Philadelphia, *Consultant Orthopaedist*.

DEPARTMENT OF EDUCATION.

PHEBE ANNA THORNE MODEL SCHOOL.

MATILDE CASTRO,* Ph.D., *Director*.

A.B., University of Chicago, 1900, and Ph.D., 1907. Fellow in Philosophy, University of Chicago, 1900-01, 1903-04, 1905-06. Principal of the Morris High School, Morris, Ill., 1901-03; Instructor in Philosophy, Mount Holyoke College, 1904-05; Instructor in Philosophy, Vassar College, 1906-09; Professor and Head of the Department of Philosophy, Rockford College, 1910-12. Phebe Anna Thorne Professor of Education, Bryn Mawr College.

ELSIE GARLAND HOBSON, Ph.D., *Head Mistress*.

A.B., Boston University, 1895, and A.M., 1896; Ph.D., University of Chicago, 1916. Teacher of Greek and English, High School, Lewiston, Me., 1896-97; Teacher of Greek and Latin, Academy for Women, Jacksonville, Ill., 1897-99; Principal in Greek and Latin, Academy for Women, Jacksonville, Ill., 1899-1900; Principal and Teacher of Greek and Latin, Michigan Seminary, Kalamazoo, Mich., 1900-07; Principal and Teacher of Greek and Latin, Frances Shimer Academy, Mt. Carroll, Ill., 1907-13; Teacher of Greek and Latin, Miss Spaid's School, Chicago, Ill., 1913-14; Head of High School Department and Teacher of Mathematics and History, Mary C. Wheeler School, Providence, R. I., 1914-18.

SAMUEL ARTHUR KING, M.A., *Teacher of Reading*.

Tynemouth, England. M.A., University of London, 1900. Special Lecturer in Public Speaking, Johns Hopkins University, 1901; Special Lecturer in Speech, University of California, 1902; Non-Resident Lecturer in English Diction, Bryn Mawr College.

MABEL PAULINE WOLFF, A.M., *Teacher of History*.

A.B., Barnard College, 1905, and A.M., Columbia University, 1915. Teacher, Public School, Patton, Pa., 1905-06, Allentown College for Women, 1906-07, Paulsboro High School, Gloucester City, N. J., 1907-11, Washington Seminary, Washington, Pa., 1911-14, and Leominster High School, Leominster, Mass., 1915-16.

ALICE RUTH PARKER, A.M., *Teacher of Greek and Latin*.

A.B., Mount Holyoke College, 1913, and A.M., 1915. Reader in Latin, Mount Holyoke College, 1913-15; Teacher of Latin, High School, Hudson, N. Y., 1915-17; Teacher of Latin, Cortland Normal School, Cortland, N. Y., 1917-18.

RIDIE J. GUION, A.M., *Teacher of English*.

A.B., Wellesley College, 1911; A.M., Columbia University, 1917. Teacher of English, Graham Hall, Minneapolis, Minn., 1912-15; Miss Fine's School, Princeton, N. J., 1915-17.

JOSEPHINE WILCOX,† Ph.B., *Teacher of French*.

Ph.B., University of Chicago, 1907. Teacher of French, Kenwood-Loring School, Chicago, 1907-08; Alcott School, Lake Forest, Ill., 1907-10; Tutor, Lake Forest, 1910-13; European travel and study, 1913-14; Private Class, Groton, Mass., 1914-15; Teacher of French, Adelphi Academy, Brooklyn, N. Y., 1915-16; The Finch School, New York City, 1916-17; Kenwood-Loring School, Chicago, 1917-19.

ELIZABETH RIDER MERRITT, B.S., *Teacher of Painting, Drawing and Modeling, and Crafts*.

B.S., Teachers College, Columbia University, 1918. Teacher of Fine Arts, Horace Mann School, Teachers College, New York City, 1918-19.

N. ELLENA COLLINGE, B.S., *Teacher of Primary Department*.

B.S., Teachers College, Columbia University, 1909. Graduate Student, Columbia University, 1919.

* Granted leave of absence for the year 1921-22.

† Died October, 1920.

MARTHE JEANNE TROTAIN, *Teacher of French.*

Paris, France. Certificat d'aptitude à l'enseignement de l'anglais dans les lycées et Collèges, 1918; Student in the Sorbonne, 1916-18; Teacher in Schools in England, 1913-16; French Graduate Scholar, Bryn Mawr College, 1918-20.

MONICA HEALEA, A.B., *Teacher of Mathematics and Physics.*

A.B., Bryn Mawr College, 1920.

MARCELIA WAGNER, A.B., *Teacher of Elementary Mathematics and Beginning Science.*

A.B., Wellesley College, 1917. Laboratory Assistant in Botany, Wellesley College, 1917-18; Instructor in Botany, Sweet Briar College, 1918-20.

PLACIDO DE MONTOLIU, *Teacher of Jaques-Dalcroze Eurhythmics (Singing, Dancing).*

Graduate of the Jaques-Dalcroze College of Rhythmic Training, Geneva, Switzerland, and only authorized Director of the Dalcroze System in the United States.

CONSTANCE M. K. APPLEBEE, *Teacher of Gymnastics and Sports and Games.*

Licentiate, British College of Physical Education, 1898, and Member, 1899. Gymnasium Mistress, Girls' Grammar School, Bradford, Yorkshire, 1899-1900; in the Arnold Foster High School, Burnley, Yorkshire, 1899-1901; in the High School, Halifax, Yorkshire, 1900-01; Head of Private Gymnasium, Ilkley, Yorkshire, 1899-1901; Harvard School of Physical Training, summer, 1901; Hockey Coach, Vassar College, Wellesley College, Radcliffe College, Mount Holyoke College, Smith College, Bryn Mawr College, Boston Normal School of Gymnastics, 1901-04; Hockey Coach, Harvard Summer School of Gymnastics, 1906. Director of Gymnastics and Athletics, Bryn Mawr College.

ADA HART ARLITT, Ph.D., *Educational Psychology.*

A.B., H. Sophie Newcomb Memorial College, Tulane University, 1913; Ph.D., University of Chicago, 1917; Fellow in Biology, H. Sophie Newcomb Memorial College, 1913-14, and Fellow in Psychology, University of Chicago, 1914-16; Associate in Educational Psychology, Bryn Mawr College.

JANE SANDS, M.D., *Physician of the School.*

A.B., Syracuse University, 1915; M.D., Woman's Medical College of Pennsylvania, 1918. Interne, Philadelphia General Hospital, 1919-20; Licentiate, National Board of Medical Examiners, 1920; Special Lecturer in Hygiene, Virginia State Board of Health, summer, 1920.

HELEN MURPHY, M.D., *Examining Oculist.*

M.D., Woman's Medical College of Pennsylvania, 1893. Assistant Demonstrator in Histology, Woman's Medical College of Pennsylvania, 1894-96; Instructor in Materia Medica, 1896-1902; Instructor in Diseases of the Eye, Philadelphia Polyclinic and College for Graduates in Medicine, 1895-97; Examining Oculist of Bryn Mawr College.

STUDENTS.

Fellows, Scholars, and Graduate Students for the Year 1920-21.

MARIE PAULA LITZINGER, *Bryn Mawr European Fellow.**
Bedford, Pa. A.B., Bryn Mawr College, 1920. James E. Rhoads Sophomore Scholar, 1917-18; First Charles S. Hinchman Memorial Scholar, 1918-19; Maria L. Eastman Brooke Hall Memorial Scholar and Anna M. Powers Memorial Scholar, 1919-20; Shippen Foreign Scholar, 1920-21. Teacher in Devon Manor School, Devon, Pa., and Graduate Student in Mathematics, Bryn Mawr College, 1920-21.

CECILIA IRENE BAECHELE, *President's European Fellow.**
Philadelphia. A.B., Bryn Mawr College, 1913, and M.A., 1920. Graduate Student, University of Pennsylvania, 1913-14, summers, 1914, 1915, 1917. Teacher of Latin, Seiler School, Harrisburg, Pa., 1914; of Latin and English, High School, York, Pa., 1914-16, and of English, 1916-19. Graduate Scholar in Education, Bryn Mawr College, 1919-20; Resident Fellow in Education, 1920-21.

THERESE MATHILDE BORN, *Mary E. Garrett European Fellow.*
Indianapolis, Ind. A.B., Bryn Mawr College, 1918, and M.A., 1919. Graduate Scholar in English, Bryn Mawr College, 1918-19, and Resident Fellow in English, 1919-20. Student, University of Oxford, 1920-21.

MARY MARTHA BAUSCH,
*Anna Ottendorfer Memorial Research Fellow in Teutonic Philology.**
Everett, Pa. A.B., Pennsylvania College, 1911, and A.M., 1918. Teacher in the Hollidaysburg School, Hollidaysburg, Pa., 1911-13; Assistant Principal, the High School, Bedford, Pa., 1913-17; Graduate Scholar in German, University of Wisconsin, 1918-19, and Fellow, 1919-20.

HELEN TURNBULL GILROY, *Helen Schaeffer Huff Memorial Research Fellow.*
Philadelphia. A.B., Bryn Mawr College, 1909, and M.A., 1912. Graduate Student and Student Assistant in the Physical Laboratory, Bryn Mawr College, 1910-11, and Resident Fellow in Physics, 1911-12; Instructor in Physics, Mount Holyoke College, 1912-14; Demonstrator in Physics, Bryn Mawr College, 1914-15; Graduate Student in Physics, University of Chicago, 1915-17; Instructor in Physics, Vassar College, 1917-20; Graduate Student in Physics, University of Chicago, 1920-21.

ERNESTINE EMMA MERCER, *Fellow in Greek.*
Philadelphia. A.B., Bryn Mawr College, 1919, and M.A., 1920. Bryn Mawr European Fellow (elect) and Shippen Foreign Scholar (elect), and Graduate Scholar in Latin, 1919-20.

HELEN FRANCES WOOD, *Fellow in Latin.*
South Hadley Falls, Mass. A.B., Mount Holyoke College, 1918, and A.M., 1920. Graduate Scholar in Latin, Bryn Mawr College, 1919-20.

HELEN ROSE ADAMS, *Fellow in English.*
Meadville, Pa. A.B., Allegheny College, 1916, and M.A., 1919. Graduate Assistant in Latin, Allegheny College, 1917-20, and Instructor in English, Summer Session, 1919.

MARGARET GILMAN, *Fellow in French.*
Wellesley, Mass. A.B., Bryn Mawr College, 1919, and M.A., 1920. Graduate Scholar in French, 1919-20.

NINA LOUISE EARLY, *Fellow in History.*
Nashville, Tenn. B.S., Vanderbilt University, 1914, and M.S., 1915. Teacher in the High School, Clarksville, Tenn., 1915-19; Fellow in History, Bryn Mawr College, 1919-20.

AMY LAWRENCE MARTIN, *Fellow in Economics and Politics.*
Chicago, Ill. A.B., Bryn Mawr College, 1915; A.M., Columbia University, 1916. Teacher of Economics and History, Riverhook, Nyack, N. Y., 1916-19; Fellow in Economics and Politics, Bryn Mawr College, 1919-20.

* Fellowship deferred.

HELEN ELIZABETH SPALDING,

Carola Woerishoffer Fellow in Social Economy and Social Research.

Detroit, Mich. A.B., Bryn Mawr College, 1919, and M.A., 1920. Graduate Student, Bryn Mawr College, 1919-20.

HELEN IVES SCHERMERHORN,

Carola Woerishoffer Fellow in Social Economy and Social Research.

Schenectady, N. Y. A.B., Vassar College, 1908; A.M., Columbia University, 1920. Teacher in the Brown School, Schenectady, 1908-15; in the Albany School for Girls, Albany, N. Y., 1915-19; Graduate Student, Columbia University, 1919-20.

ISTAR ALIDA HAUPT, *Fellow in Psychology.*

Roland Park, Md. A.B., Bryn Mawr College, 1917, and M.A., 1918. Graduate Scholar in Psychology, Bryn Mawr College, 1917-18, and Assistant Demonstrator in Applied Psychology, 1918-20.

CECILIA IRENE BAECHELE, *Fellow in Education.*

Philadelphia. A.B., Bryn Mawr College, 1913. Graduate Student, University of Pennsylvania, 1913-14, summers, 1914, 1915, 1917. Teacher of Latin, Seiler School, Harrisburg, Pa., 1914; of Latin and English, High School, York, Pa., 1914-16, and of English, 1916-19; Graduate Scholar in Education, Bryn Mawr College, 1919-20, and President M. Carey Thomas European Fellow elect for 1920-21.

GRACE WANDELL NELSON, *Fellow in Classical Archaeology.*

Philadelphia. A.B., Wellesley College, 1917. Graduate Student, Wellesley College, 1917-18; Graduate Scholar in Classical Archaeology, Bryn Mawr College, 1918-19.

HELEN FRANCES GOLDSTEIN, *Fellow in Chemistry.*

New York City. B.S., Barnard College, 1918. Graduate Scholar in Chemistry, Bryn Mawr College, 1918-19, and Fellow in Chemistry, 1919-20.

HOPE HIBBARD, *Fellow in Biology.*

A.B., University of Missouri, 1916, and A.M., 1918. Assistant in Zoölogy, University of Missouri, 1915-18. Honorary Scholar and Assistant Demonstrator in Biology, Bryn Mawr College, 1918-19, and Fellow in Biology, 1919-20.

MARGARET CAMERON COBB,

Fellow by Courtesy and Graduate Scholar in Geology.

Portsmouth, Va. A.B., North Carolina Normal College, 1912; A.B., Barnard College, 1915. Teacher in the Public Schools, Norfolk, Va., 1912-14; Student, Barnard College, 1914-15, Columbia University, 1915-16; Fellow in Geology, Bryn Mawr College, 1916-17, 1919-20; Instructor in Geology, Mount Holyoke College, 1917-19.

LEAH HANNAH FEDER,

Carola Woerishoffer Fellow by Courtesy in Social Economy and Research.

Passaic, N. J. A.B., Mount Holyoke College, 1917. Graduate Scholar in Social Economy and Social Research, Bryn Mawr College, 1917-18, Fellow, 1918-19; Supervisor, Receiving Department, Pennsylvania Children's Aid Society, 1919—.

LEONA CHRISTINE GABEL, *Fellow by Courtesy in History.*

Syracuse, N. Y. A.B., Syracuse University, 1915. Columbia University, Summer session, 1916. Teacher in the High School, Canastota, N. Y., 1915-17. Graduate Scholar in History, Bryn Mawr College, 1917-18, and Fellow in History, 1918-19. Teacher of History in the Shipley School, Bryn Mawr, and Graduate Student in History, Bryn Mawr College, 1919-21; European Traveling Fellow elect, 1921-22.

MARGARET GEORGIANA MELVIN, *Fellow by Courtesy in Philosophy.*

New Brunswick, Canada. A.B., Royal Victoria College, McGill University, with honours in English and Philosophy, 1917, and A.M., 1919. Graduate Scholar in Philosophy, 1917-18, and Fellow in Philosophy, 1918-20; Reader in English and Graduate Student in Philosophy, 1920-21.

HELEN ELIZABETH PATCH, *Fellow by Courtesy in French.*

Bangor, Maine. A.B., Mount Holyoke College, 1914. Teacher in the East Maine Conference Seminary, 1914-16, and in the High School Bangor, 1916-17. Graduate Scholar in Romance Languages, 1917-18, Fellow in French, 1918-19; A. C. A. European Fellow and Student, Sorbonne and Collège de France, 1919-20; Teacher in the Shipley School, Bryn Mawr, and Graduate Student in French, 1920-21.

ELIZABETH LANE PORTER,

Bryn Mawr-Intercollegiate Community Service Association Joint Fellow.

Fort Wayne, Ind. A.B., Bryn Mawr College, 1916; M.A., Carnegie Institute of Technology, 1920. Chief Clerk, District Exemption Board, 1917-19; Social Work, Margaret Morrison Division of Carnegie Institute of Technology, 1919-20.

MARY BROOKS GOODHUE, *Industrial Fellow in Social Economy.*

Philadelphia. A.B., Bryn Mawr College, 1915; M.A., University of Pennsylvania, 1918. Teacher in the High School, Lunenburg, Mass., 1915-17; Industrial Secretary, Y. W. C. A., Baltimore, Md., 1918-20.

VIRGINIA WENDEL SPENCE, *Industrial Fellow in Social Economy.*

Austin, Tex. A.B., University of Texas, 1917, and M.A., 1920.

CHARLOTTE ISABELLE FERNANDE CHURCHILL, *British Scholar.*

Paris, France. Certificate equivalent to B.A., Honour School of English Language and Literature, University of Oxford, 1918. Secretary to the President of the British Committee of the French Red Cross, 1918-20.

FLORENCE MARY DUNCAN, *British Scholar.*

Comrie, Perthshire, Scotland. Certificate equivalent to B.A., Honour School of English Language and Literature, University of Oxford, 1920; Student, Somerville College, 1917-20.

THERESE KATHLEEN KELLY, *British Scholar.*

Blackrock, Co. Dublin, Ireland. B.A. with Honours in Modern Languages, National University of Ireland, 1916. Examiner of Income Tax Claims, H. M. Civil Service, and Examiner and Assessor of Deeds for Stamp Duties, Four Courts, Dublin, 1916-20.

MILDRED TONGE, *British Scholar.*

Chequerbent, Lancashire, England. Newnham College, University of Cambridge, 1917-20, English Tripos, Part I, Class 1, 1919, Part II, Class 1, 1920.

SUZANNE ADÈLE EUGÉNIE CHAMBRY, *French Scholar.*

Paris, France. Licenciée-ès-lettres, University of Paris, 1915; Diplôme d'Études supérieures d'anglais, 1918. Student of the Sorbonne, 1913-16, 1918-20; Assistant in the University of Birmingham, 1916-18.

JEANNE MARIE GALLAND, *French Scholar.*

Mazamet, France. Licenciée-ès-lettres "mention Anglais", 1920. Diplôme de fin d'Études secondaires, 1917. Student, Collège d'Albi, 1912-18; University of Montpellier, 1918-20.

GEORGETTE HONORINE VERNIER, *French Scholar.*

Paris, France. Licenciée-ès-lettres, University of Paris, 1920. Student at the Sorbonne and University of Paris, 1917-20.

MARIA LUISA GARCIA-DORADO-Y-SEIRULLO, *Spanish Scholar.*

Salamanca, Spain. Licenciada en Letras, University of Salamanca, 1917. Graduate Student, University of Madrid, 1917-19, and Teacher of Latin in the Instituto-Escuela of Madrid, 1918-20.

RUTH EMMA MARIA REHNBERG, *Swedish Scholar.*

Hjo, Sweden. Bachelor of Arts, University of Upsala, 1917. Student, University of Lund, Semester I, 1914; University of Upsala, 1915-18. Library Assistant, University of Upsala Library, 1918-19.

MARY ALBERTSON, 2ND, *History.*

Bryn Mawr. A.B., Bryn Mawr College, 1915. Teacher of English, St. Nicholas School, Seattle, Wash., 1916-17, Homestead School, Healing Springs, Va., 1917-18; Baldwin School, Bryn Mawr, 1918—.

MARTHA ANDERSON, *Social Economy.*

Philadelphia. B.S., Simmons College, 1919. Secretary, Carola Woerishoffer Department of Social Economy and Social Research, 1919—.

ALICE BEARDWOOD, *History.*

Philadelphia. A.B., Bryn Mawr College, 1917. Teacher of Latin and Mathematics, Flagler School, Jacksonville, Fla., 1918-19, Southfield Point School, Stamford, Conn., 1919-20, and Academic Head and Teacher of History, Devon Manor, Devon, Pa., 1920—.

MARY BISHOP, *Graduate Scholar in Latin.*

Keeseville, N. Y. Ph.B., University of Vermont, 1920.

- ETHEL KATHERINE BOYCE, *English*.
 Denver, Colo. A.B., State University of Iowa, 1919. Reader in English Composition, State University of Iowa, 1917-19.
- MARY GARRETT BRANSON, *Mathematics*.
 Rosemont, Pa. A.B., Bryn Mawr College, 1916. Columbia University, Summer Session, 1917. Teacher of Mathematics and Science, Rosemary Hall, Greenwich, Conn., 1916-18, and in the Shipley School, Bryn Mawr, Pa., 1918-20.
- HELEN ELIZABETH BRENNAN, *Susan B. Anthony Memorial Scholar*.
 Leetonia, Ohio. A.B., Radcliffe College, 1920.
- ANNA HAINES BROWN, *History*.
 Philadelphia. A.B., Bryn Mawr College, 1915, and M.A., 1916. Graduate Student, Bryn Mawr College, 1915-17.
- MADELAINE RAY BROWN, *Psychology*.
 Providence, R. I. A.B., Bryn Mawr College, 1920.
- ELEANOR HOUSTON CARPENTER, * *History*.
 Bryn Mawr, Pa. A.B., Bryn Mawr College, 1916. Administrative Assistant, Ordnance Department, Washington, 1918-19.
- RUTH EMILY CHAPMAN, *Graduate Scholar in Social Economy*.
 Philadelphia. A.B., University of Denver, 1919. Office Manager, Goodwill Industries, Philadelphia, 1919—.
- LUCY EVANS CHEW, † *Italian*.
 Bryn Mawr, Pa. A.B., Bryn Mawr College, 1918.
- ELEANOR GRACE CLARK, *English*.
 Portland, Ore. A.B., Oberlin College, 1918, and M.A., 1919. Teacher of English in St. Helen's Hall, Portland, O., 1918-20.
- EVA COHEN, *Industrial Scholar in Social Economy*.
 Hartford, Conn. A.B., Smith College, 1916. Worker in United Hebrew Charities, New York City, 1916-17; in New York Probation and Protective Association, 1917; in Juvenile Commission, Hartford, 1917-18, 1919-20; in U. S. Employment Service, Connecticut, 1918-19.
- ELIZABETH MORGAN COOPER, *Mathematics*.
 Syracuse, N. Y. A.B., Radcliffe College, 1913. Teacher of Mathematics in the Baldwin School, Bryn Mawr, Pa., 1913—.
- MARY DELIGHT CRAIGMILE, *Graduate Scholar in Mathematics*.
 Knox, Ind. A.B., University of Illinois, 1918. Teacher of Mathematics in the High School, Champaign, Ill., 1918-20.
- REGINA KATHERINE CRANDALL, *Spanish*.
 Bryn Mawr, Pa. A.B., Smith College, 1890; Ph.D., University of Chicago, 1902. Margaret Kingsland Haskell Professor of English Composition, Bryn Mawr College.
- MARJORIE HELEN DARR, *Red Cross Scholar in Social Economy*.
 St. Marys, Pa. A.B., Smith College, 1916. Teaching, 1916-18; American Red Cross Worker, 1918-19.
- NYOK ZOE DONG, *Graduate Scholar in Social Economy*.
 Shanghai, China. Ginling College, 1916-18. A.B., Smith College, 1920. Scholar of the Chinese Educational Mission.
- CONSTANCE ELEANOR DOWD, *Education*.
 New York City. A.B., Bryn Mawr College, 1916. Clerk, Ordnance Bureau, War Department, 1918-19; Assistant to Director of Athletics and Gymnastics, Bryn Mawr College, 1919—.
- HELEN ELIZABETH FERNALD, *History of Art*.
 Amherst, Mass. A.B., Mount Holyoke College, 1914. Graduate Student, Teachers College, Columbia University, 1916-18. Technical Artist and Research Assistant, Columbia University, 1915-18. Instructor in History of Art, Bryn Mawr College.

* Mrs. Rhys Carpenter.

† Mrs. Samuel Claggett Chew.

- LUCILE FULK, *Industrial Scholar in Social Economy.*
Atlanta, Neb. A.B., University of Nebraska, 1919. Teacher of English in the High School, Norfolk, Neb., 1919-20.
- MARY DOROTHY GLENN, *French.*
Johnstown, Pa. A.B., Bryn Mawr College, 1917. Teacher of Languages in the High School, Somerset, Pa., 1917-18, and Private Tutor, 1918-20.
- MADELEINE GUILLAUMIN, *English and History of Art.*
Moulins-Allier, France. Student, University of Clermont Ferrand, 1917-19.
- RIDIE JUSTICE GUION, *Education.*
Charlotte, N. C. A.B., Wellesley College, 1911; M.A., Columbia University, 1917. Teacher of English, Graham Hall, Minneapolis, Minn., 1912-14, in Miss Fine's School, Princeton, N. J., 1915-16, and in the Phebe Anne Thorne Model School, Bryn Mawr, Pa., 1919—.
- MARY JANE GUTHRIE, *Biology.*
Columbia, Mo. A.B., University of Missouri, 1916, and A.M., 1918. Assistant in Zoology, University of Missouri, 1916-18; Honorary Scholar and Assistant Demonstrator in Biology, Bryn Mawr College, and Demonstrator, 1919—.
- EMMA M. HAIGH, *Spanish.*
Ardmore, Pa. B.S., Teachers College, Columbia University, 1909, and M.A., University of Pennsylvania. Teacher of German in the Friends' Central School, Philadelphia, 1901-03, in the Trenton Normal School, Trenton, N. J., 1903-08, in the Girls' High School, Philadelphia, 1909-12, and of German and Spanish in the Girls' High School, West Philadelphia, 1912—.
- MINNIE ETTA HARMAN, *Red Cross Scholar in Social Economy.*
Tazewell, Va. A.B., Lynchburg College, 1914. University of Virginia Summer School, 1916, 1920. Assistant Principal of High Schools, 1915-18; American Red Cross Worker, 1918-19.
- MONICA HEALEA, *Mathematics.*
New Philadelphia, Ohio. A.B., Bryn Mawr College, 1920. Teacher of Mathematics and Science in the Phebe Anna Thorne Model School, 1920—.
- DOROTHY HELEN HEIRONIMUS, *Earlham College Scholar.*
Richmond, Ind. A.B., Earlham College, 1920.
- MARGARET HIRSH, *Graduate Scholar in Social Economy.*
Melrose Park, Pa. A.B., Smith College, 1920.
- KATHERINE HUFF, *Graduate Scholar in Philosophy.*
Champaign, Ill. A.B., University of Illinois, 1920.
- ELIZABETH BERGNER HURLOCK, *Social Philosophy.*
Philadelphia. A.B., Bryn Mawr College, 1919. Teacher in the Manor School, Larchmont Manor, N. Y., 1919-20, and in Springside, Chestnut Hill, Philadelphia, 1920-21.
- FLORENCE CATHERINE IRISH, *History.*
Norristown, Pa. A.B., Bryn Mawr College, 1914, and A.M., 1916. Teacher in Miss Roney's School, 1917-18; Woman's Committee, Council of National Defence, and Bureau of Aircraft Production, Washington, D. C., 1918-19, Private Tutor, 1919-20. Graduate Student, Bryn Mawr College, 1914-16.
- HELEN EMILY KINGSBURY, *Graduate Scholar in English.*
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1920.
- SIBYL IONE KRAMME, *Penn College Scholar.*
Oskaloosa, Iowa. A.B., Penn College, 1920.
- ANNA MARGUERITE MARIE LEHR, *Mathematics.*
Baltimore, Md. A.B., Goucher College, 1919. Reader and Graduate Student in Mathematics, Bryn Mawr College, 1919—.
- KATHARINE FORBES LIDDELL, *English.*
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1910. Teacher in the Lucy Cobb Institute, Athens, Ga., 1910-12, in Miss Madeira's School, Washington, D. C., 1912-14; Student, University of Oxford, 1914-15. Instructor in English Composition, Wellesley College, 1915-20; Bryn Mawr College, 1920—.

- MARIE PAULA LITZINGER, *Mathematics.*
Bedford, Pa. A.B., Bryn Mawr College, 1920. Teacher of Latin and Mathematics in the Devon Manor School, Devon, Pa., 1920—.
- BEATRICE McGEORGE, *English and Education.*
Cynwyd, Pa. A.B., Bryn Mawr College, 1901. Teacher in the Agnes Irwin School, Philadelphia, 1919—. Graduate Student, Bryn Mawr College, 1902-03, 1918—.
- ELIZABETH VAIL McSHANE, *Chemistry and Biology.*
Philadelphia. A.B., Vassar College, 1913. Teacher in the Ben Davis High School and in Tudor Hall, Indianapolis, Ind., 1913-15; Bond Sales Woman, 1916-18; Assistant Secretary, Pennsylvania Health Insurance Commission, 1918-19; Director, Clothiers' Research Bureau, Baltimore, 1919-20.
- LOIS ANGELINA MEREDITH, *Robert G. Valentine Scholar in Social Economy.*
Minneapolis, Minn. A.B., Grinnell College, 1919. Teacher, Nashua, Ia., 1919-20.
- MARGARET MONTAGUE MONROE, *Psychology.*
Asheville, N. C. A.B., Mount Holyoke College, 1915. Teacher in the Commercial High School, Atlanta, Ga., 1915-16; Scholar in Psychology, Bryn Mawr College, 1916-17, and Fellow, 1918-20; Assistant Demonstrator in Psychology, Bryn Mawr College, 1920—.
- ANNE HENDRY MORRISON, .. *Community Center Scholar in Social Economy.*
Kansas City, Mo. A.B., Missouri University, 1914. Summer Session, Chicago University, 1916, 1919, Columbia University, 1917, Mount Holyoke College, 1918. Teacher in Public Schools, 1905-06, 1907-13, 1914-15, and in Westport High School, 1915-20.
- MARY LUCEIL MORROW, *Graduate Scholar in English.*
Portland, Ore. A.B., University of Oregon, 1920.
- WINIFRED SEELY MYERS, *English.*
Berwick, Pa. Pd.B. in Music, Syracuse University, 1917, and A.B., 1918. Teacher in the High School, Berwick, Pa., 1918-20.
- ARDIS NASON, *Industrial Scholar in Social Economy.*
Tyrone, Pa. A.B., Mount Holyoke College, 1920.
- VANNER EMMA NEECE, *Guilford College Scholar.*
Climax, N. Car. B.S., Guilford College, 1920. Teacher in Public Schools, 1913-15.
- MARGARET ERSKINE NICHOLSON, *Graduate Scholar in Philosophy.*
Oradell, N. J. A.B., Barnard College, 1920.
- MIRIAM O'BRIEN, *Graduate Scholar in Psychology.*
Brookline, Mass. A.B., Bryn Mawr College, 1920.
- MARY ISABELLE O'SULLIVAN, *English.*
Philadelphia. A.B., Bryn Mawr College, 1907. New York State Library School, 1915-16. Private Tutor and Night Librarian, Drexel Institute, 1908-09; Indexer, Estate of Stephen Girard, 1909-15; Cataloguer, New York Public Library, 1916-17. Graduate Scholar in English Composition, Bryn Mawr College, 1917-18, and Cataloguer, Bryn Mawr College Library, 1918—.
- ETHEL PEW, *Social Economy.*
Bryn Mawr, Pa. A.B., 1906. Graduate Student, Bryn Mawr College, 1908-09.
- ALICE MAY PIRIE, *Industrial Scholar in Social Economy.*
Fort Collins, Colo. A.B., Colorado College, 1919. Principal of Estes Park School, Estes Park, Colo., 1919-20.
- ARLINE FEARON PRESTON, *Graduate Scholar in Philosophy.*
Fallston, Md. A.B., Bryn Mawr College, 1920.
- LESLIE RICHARDSON, *History.*
Cambridge, Mass. A.B., Bryn Mawr College, 1918. Warden of Radnor Hall, 1919—.
- CATHERINE PALMER ROBINSON, *Graduate Scholar in French.*
Greenwich, Conn. A.B., Bryn Mawr College, 1920.

- NITA EMELINE SCUDDER,.....*Graduate Scholar in English.*
Oxford, Ohio. B.S., Miami University, 1920.
- BERTHA SHANEK,.....*Industrial Scholar in Social Economy.*
Odell, Neb. A.B., University of Nebraska, 1912. Graduate Student, University of Nebraska, 1916-18; Summer Session, Columbia University, 1916. Teacher of History in the High School, Hastings, Neb., 1912-16, and in the University of Wyoming Preparatory High School, 1918-20.
- LOUISE LITTIG SLOAN,.....*Graduate Scholar in Psychology.*
Lutherville, Md. A.B., Bryn Mawr College, 1920. Assistant Demonstrator in Psychology, 1920—.
- MARGUERITE LYONS SNIDER,.....*Red Cross Scholar in Social Economy.*
Uniontown, Pa. A.B., Vassar College, 1918. Red Cross Civilian Relief Worker, 1918-20.
- MARTHE JEANNE TROTAIN,.....*French.*
Paris, France. Certificat d'aptitude à l'enseignement d'Anglais dans les Lycées et Collèges, 1918. Student in the Sorbonne, 1916-18. Teacher in Schools in England, 1913-14, 1915-16. French Graduate Scholar, Bryn Mawr College, 1918-20; Teacher of French in the Phebe Anna Thorne Model School, 1920—.
- EMMI WALDER,.....*Swiss Industrial Scholar in Social Economy.*
Nauendorf, Switzerland. University of Zurich, Summer Semester, 1919; University of Berne, 1919-20.
- WHITTIER, ISABEL MARY SKOLFIELD,.....*History.*
Brunswick, Me. A.B., Bryn Mawr College, 1920.
- GRACE EDITH WILLIAMS,.....*Industrial Scholar in Social Economy.*
Oskaloosa, Iowa. Ph.B., Penn College, 1913. Summer Session, University of Chicago, 1917. Teacher in Public Schools, 1906-08, 1910-11; in High School, 1913-14. Y. W. C. A. General Secretary, 1915-17; Industrial Worker, 1917-20.
- FLORENCE LEOPOLD WOLF,*.....*Economics.*
Elkins Park, Pa. A.B., Bryn Mawr College, 1912.
- AGNES STERRETT WOODS,
Bryn Mawr Community Center Scholar in Social Economy.
Carlisle, Pa. A.B., Dickinson College, 1917, and A.M., 1918. Worker in Employment Office, National Board of Y. W. C. A., 1918-19. Graduate Student, Bryn Mawr College, 1919-20.

* Mrs. Lester Wolf.

SUMMARY OF FELLOWSHIPS AWARDED.

EUROPEAN FELLOWSHIPS.	Founded by	Date.	Number of Holders.
Bryn Mawr (for Senior Class)	The Trustees	1885	32
Mary Elizabeth Garrett (for second year graduates).....	Miss Garrett	1894	27
President M. Carey Thomas (for first year graduates).....	Miss Garrett	1896	25
Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology.....	Mrs. Anna Woerishoffer	1907	8††
SPECIAL EUROPEAN FELLOWSHIPS. Given by.			
Bryn Mawr Research.....	Anonymous Donor	1906	1
Special European.....	Anonymous Donor	1909	1
Special European.....	Anonymous Donor	1915	1
Special European.....	Anonymous Donor	1916	1

Total number of European Fellows, omitting duplicates..... 94†

RESIDENT FELLOWSHIPS.	Founded by the Trustees in	Number of Holders.
In Greek.....	1885.....	31**††
In Latin.....	1892.....	28
In English.....	1885.....	32*§
In Teutonic Philology.....	1893.....	18††
In Romance Languages.....	1893.....	20§
In Semitic Languages.....	1912.....	3††
In History or Economics and Politics.....	1885.....	31††
In Economics and Politics.....	1912.....	6††
In Social Research.....	1915.....	9††
In Philosophy or Psychology.....	1896.....	16§§
In Psychology.....	1915.....	5§
In Education.....	1917.....	4
In Archæology.....	1909.....	6§
In Mathematics.....	1885.....	27††
In Physics.....	1896.....	13
In Chemistry.....	1893.....	22***
In Geology.....	1912.....	7
In Biology.....	1885.....	27††
Research Fellowship in Chemistry.....	1907.....	3†
Helen Schaeffer Huff Research Fellowship in Physics or Chemistry, founded by an anonymous donor in 1913.....		4¶§

Total number of Resident Fellows, omitting duplicates..... 310

Total number of Resident Fellowships awarded, omitting duplicates..... 347†

* Two students have held Fellowships in English who also held Fellowships in other subjects.

† Two of these students previously held a Fellowship in Chemistry.

‡ Of these fifty-six have held both European and Resident Fellowships.

§ One student held this Fellowship for two years.

** One of these students previously held a Fellowship in Latin and one a Fellowship in English.

†† Two students held this Fellowship for two years.

‡‡ Three students held this Fellowship for two years.

§§ Four students held this Fellowship for two years.

*** Five students held this Fellowship for two years.

¶ One of these students previously held a Fellowship in Chemistry, one held a Fellowship in Physics.

BRYN MAWR COLLEGE.

GRADUATE COURSES OF INSTRUCTION.

BRYN MAWR COLLEGE, situated at Bryn Mawr, Pennsylvania, five miles from Philadelphia, was endowed by Dr. Joseph W. Taylor of Burlington, New Jersey, who died January 18, 1880. By his will he left the greater portion of his estate for the purpose of establishing and maintaining an institution of advanced learning for women. In the spring of 1885 the first program was issued, and the College opened for instruction in the following autumn.

Three classes of persons are admitted to the lectures and class work of the College—graduate students, undergraduate students, and hearers. For the convenience of graduate students the regulations of the graduate department and the graduate courses of instruction are published separately. No undergraduates are admitted to graduate courses.

Regulations of the Graduate Department.

From the first it has been the policy of the Trustees of Bryn Mawr College to organize no department in which they could not provide for graduate as well as undergraduate study. Only such instructors have been chosen as are qualified to direct both graduate and undergraduate work. In each department a consecutive series of graduate courses pursued throughout three years provides preparation in the chief or major subject of the examination for the degree of Doctor of Philosophy, and certain courses may be pursued for one or two years and offered as one of the two minor or secondary subjects.

Admission.

Graduate students must have presented a diploma from some college of acknowledged standing.* They may pursue any courses offered by the College for which their previous training

* The certificates of the women's colleges of the English Universities of Oxford and Cambridge are regarded as equivalent to a first degree,—i. e., to the degree of Bachelor of Arts.

has fitted them; but they must satisfy the several instructors of their ability to profit by the courses they desire to follow, and may be required to pursue certain introductory or auxiliary studies before they are admitted to the advanced or purely graduate courses. They are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations from the instructors, and their needs will be considered in the arrangement of new courses of lectures; they must consult the President in regard to the courses they are to pursue, and must be duly registered for those courses at the President's office.

A reading knowledge of French and German is regarded as of the utmost importance to all graduate students, and is required of all candidates for a second degree. The undergraduate department will afford the student every opportunity for making good any deficiencies in this respect.

Fellowships and Scholarships.

The most distinguished place among the graduate students is held by the Fellows, who must reside in the college during the academic year. Twenty resident fellowships, of the value of eight hundred and ten dollars each, are awarded annually in Greek, Latin, English, Romance Languages, Semitic Languages and Biblical Literature, History, Philosophy, Psychology, Education, Archæology, History of Art, Mathematics, Physics, Chemistry, Geology, and Biology, in Economics and Politics, named the Justus C. Strawbridge Fellowship, and two in Social Economy and Social Research, the Carola Woerishoffer Fellowships, and one Grace H. Dodge Memorial Fellowship in Social Economy in preparation for Industrial Relations and Personnel Administration. They are open for competition to graduates of Bryn Mawr College, or of any other college of good standing, and will be awarded only to candidates who have completed at least one year of graduate work after obtaining their first degree. The fellowships are intended as an honour, and are awarded in recognition of previous attainments; generally speaking, they will be awarded to the candidates that have studied longest or to those whose work gives most promise of future success.

The holder of a fellowship is expected to devote at least one half her time to the department in which the fellowship is awarded, and to show, by the presentation of a thesis or in some other manner, that her studies have not been without result.

The Helen Schaeffer Huff Memorial Research Fellowship founded in 1913, is awarded annually to a student desiring to carry on research in either Physics or Chemistry, to be held during one year's work at Bryn Mawr College. The value of the Fellowship in 1921-22 will be twelve hundred dollars.

Applicants for this fellowship must be students who have done advanced graduate work at Bryn Mawr College or at other colleges or universities and have shown capacity for research. The award of the fellowship will depend primarily upon the record of the applicant as a research student. Where equally good candidates are considered, preference will be given to a student working on problems which may be considered to lie along the borderline between Chemistry and Physics. The fellowship may under exceptional circumstances be awarded in consecutive years to the same student, or the fellowship may be given to a graduate student studying at Bryn Mawr College to be held during one year's work at some other American college or university if in the opinion of the Committee it is imperative for that student to go to some other college or university in order to complete an important piece of investigation.

All fellows may study for the degree of Doctor of Philosophy, the fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Fellows that continue their studies at the College after the expiration of the fellowship, may, by a vote of the directors, receive the rank of Fellows by Courtesy.

Fellows are expected to attend all college functions, to wear academic dress, to assist in the conduct of examinations, and to give about an hour a week to the care of departmental libraries in the seminaries and in the halls of residence, but no such service may be required of them except by a written request from the president's office; they are not permitted, while holding the fellowship, to teach, or to undertake any other

duties in addition to their college work. Fellows* are required to reside in the college and are assigned rooms by the Secretary of the College. They are charged the usual fee of seven hundred and ten dollars for tuition, board, room-rent, and infirmary fee.

A resident Intercollegiate Community Service Association and Bryn Mawr College joint fellowship† was established in 1915 and is offered by the Intercollegiate Community Service Association and by some alumnæ of Bryn Mawr College to a Bryn Mawr College graduate who wishes to prepare herself for settlement work. The value of the fellowship is \$650, \$200 of which is given by the College to meet the tuition fee. The holder of the fellowship is required to live in the College Settlement in Philadelphia and to give her entire time to the work of the Department of Social Economy. There is a charge of \$7.00 a week for board and lodging in the Settlement and in addition to the usual charge of \$200 for the graduate tuition fee in Bryn Mawr College, the usual laboratory and transportation fees. Applications may be sent to the President of Bryn Mawr College.

Two additional joint fellowships of the value of \$450 are offered by the Intercollegiate Community Service Association in conjunction with Smith College and Wellesley College, to graduates of Smith College and Wellesley College, respectively, who wish to prepare themselves for community service. These fellowships may be held in connection with the College Settlement of Philadelphia.

Twenty Graduate Scholarships, of the value of three hundred and fifty dollars each, may be awarded to candidates next in merit to the successful candidates for the fellowships; they are also open for competition to graduates of Bryn Mawr College, or of any other college of good standing. Scholars* are expected to reside in the College, to attend all College functions,

* It is expected that fellows and scholars of the college will uphold the college standards of scholarship and conduct and give loyal support to the Students' Association for Self-Government.

† The term fellowship is used here because adopted by the Intercollegiate Community Service Association. The condition of one year's graduate study required of candidates for Bryn Mawr College resident fellowships does not apply.

to wear academic dress, and to assist in the conduct of examinations. They may undertake, while holding the scholarship, only a very limited amount of teaching or other paid work approved in advance by the President's office.

The Susan B. Anthony Memorial Research Scholarship in Social Economy and Social Research or in Politics, of the value of five hundred and fifty dollars, was founded in 1910 by the Executors of the late Susan B. Anthony, the late Dr. Anna Howard Shaw and Miss Lucy E. Anthony, in memory of Susan B. Anthony's work for women's college education. It is awarded to the candidate wishing to devote herself to studies dealing with the position of women in industry and politics whose work shows most promise of future success. The holder is required to complete for publication a study in one or the other of these subjects.

The Robert G. Valentine Memorial Scholarship in Social Economy and Social Research of the value of four hundred dollars is offered by Mrs. Frank W. Hallowell of Chestnut Hill, Massachusetts, to be awarded by the President and Faculty of Bryn Mawr College on the recommendation of the Director of the Carola Woerishoffer Department of Social Economy and Social Research to a candidate approved by the donor. It is open to graduates of Bryn Mawr College or of any other college of good standing.

Seven Grace H. Dodge Memorial Scholarships in Social Economy in preparation for Industrial Relations and Personnel Management, on the Grace H. Dodge Foundation of the value of four hundred dollars each, are offered in the Carola Woerishoffer Department of Social Economy, open for competition to graduates of Bryn Mawr College or of any other college of good standing.

Two Scholarships in Community Organization, each of the value of four hundred dollars, are offered in the Department of Social Economy and Social Research. Holders of these scholarships are expected to carry on their field work in the Bryn Mawr Community Center.

Several Graduate Scholarships in Social Economy in preparation for Red Cross Service, of the value of five hundred dollars

with loan privileges for an additional two hundred and fifty dollars, have been offered by the American Red Cross for the year 1921-22 and are open for competition to graduates of Bryn Mawr College or of any other college of good standing. Holders of these scholarships are expected to accept a position under the American Red Cross for at least one year after the completion of training.

Nine graduate scholarships for foreign women of the value of seven hundred and twenty dollars each are available for distribution to women students belonging to the following countries: England, France, Spain, Italy, Switzerland, Holland, Norway and Sweden. In general at least three will be awarded to British and three to French women and one or two to Spanish women. They are open for competition to all women of the prescribed nationality whose academic work has reached a standard equivalent to that denoted by the Bachelor's degree of an American college or university of acknowledged standing. Renewal of these scholarships for a second year will not be granted except in very exceptional cases.

Holders of the scholarships are required to be in continuous residence at the college and to follow regular approved courses of study. The scholarships are of the value of \$720 and cover only the fees for board, residence, and tuition at Bryn Mawr College for one academic year. In addition those holders of scholarships who so desire will, if possible, be given an opportunity to teach or do some other kind of work in the College for not more than five hours a week and in special cases when tutoring can be arranged for five hours a week throughout the year the sum earned may amount to from \$100 to \$200. The scholars are not permitted to accept any paid position except as arranged by the College. Holders of the scholarships must meet their own travelling expenses. A furnished single room in the graduate wing of one of the halls of residence is assigned to each scholar, but this is not available in the Christmas and Easter vacations when scholars who remain at the college have to pay the expenses of board and residence.*

Application for resident fellowships or scholarships should be

* For the rates see page 41.

made as early as possible to the President of the College,* and must be made not later than the first of April preceding the academic year for which the fellowship or scholarship is desired. Blank forms of application will be forwarded to the applicants. A definite answer will be given within about two weeks from the latest date set for receiving applications. Any original papers, printed or in manuscript, which have been prepared by the applicant and sent in support of her application, will be returned, when stamps for that purpose are enclosed, or specific directions for return by express are given. Letters or testimonials from professors and instructors will be filed for reference.

The Anna Ottendorfer Memorial Research Fellowship in German and Teutonic Philology of the value of seven hundred dollars applicable to the expenses of one year's study and residence at some German university is awarded annually to a graduate student who has completed at least one year of graduate study at Bryn Mawr College. The fellowship will be awarded to the candidate who has pursued the most advanced work, or whose studies afford the most promise of future success. She must show such proficiency in her studies or in independent work as to furnish reason to believe that she will be able to conduct independent investigations in the field of Teutonic Philology or German.

Two European fellowships, founded by the late Miss Mary Elizabeth Garrett, of Baltimore, are open to graduate students who are enrolled as candidates for the degree of Doctor of Philosophy. One, founded in 1896, and named by the donor the President M. Carey Thomas Fellowship, is awarded annually on the ground of excellence in scholarship to a student in her first year of graduate work at Bryn Mawr College; the other, founded in 1894, and known as the Mary Elizabeth Garrett Fellowship, is awarded annually on the ground of excellence in scholarship to a student still in residence who has for two years pursued graduate studies at Bryn Mawr

* Applications for the scholarships for foreign women should be accompanied by full particulars of the candidate's academic work, by diplomas or certificates, and by letters of recommendation from professors, and should be addressed to the office of the Recording Dean, Bryn Mawr College, Bryn Mawr, Pennsylvania, U. S. A., if possible by May the first, or in the case of French students they may be addressed to M. Petit Dutailis, Office Nationale des Universités et Ecoles Françaises, 96 Boulevard Raspail, Paris.

College. These fellowships, of the value of five hundred dollars each, are intended to defray the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the Faculty.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges who shall have satisfied the Academic Council that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may apply to the Academic Council to be enrolled as candidates for the degree of Master of Arts or for the Degree of Doctor of Philosophy and Master of Arts; admission to the graduate school does not, in itself, qualify a student to become a candidate for these degrees.

The Degree of Master of Arts.

The degree of Master of Arts may be conferred upon graduates of Bryn Mawr College and upon graduates of other colleges who shall have satisfied the Graduate Committee that their course of study has been equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or that it has been adequately supplemented by subsequent study.

REGULATIONS.

Course of Study.—Each candidate must attend at Bryn Mawr College three seminaries, or two seminaries and one post-major (third or fourth year undergraduate) course. A seminary requires one-third of the student's time for one year; hence to fulfil this requirement the student must devote her entire time for one year to graduate study. Unless, therefore, she has completed all the other requirements before beginning the work for the M.A. degree she will not be able to complete the work in one year.

Admission to Seminaries.—Preliminary training equivalent to the Bryn Mawr College undergraduate major course* in the subject of the seminary,

* See Bryn Mawr College Calendar. This amounts to 20 semester hours, but in English to 40 semester hours, of undergraduate college training. Compare, however, paragraph (b) below for the equivalents for the first 20 hours of English.

or in related subjects of equal value in preparation is required for admission to a seminary (or undergraduate course equivalent to a seminary) to be counted for the M.A. degree.

Examinations.—The candidate is required to pass with a creditable grade examinations on the seminaries or courses offered, such examinations being held in the first week of the May examination period.

PRELIMINARY REQUIREMENTS.

(a) *Reading Knowledge of French and German.*

All candidates must prove their ability to use these languages in graduate seminaries by passing a written examination in these languages. The only exception is that a graduate of Bryn Mawr College who becomes a candidate for the M.A. degree within two years after graduation and has taken the yearly examination in French or German is excused from examination in this language.

Dates of Examinations in French and German.—Examinations will be held each year on or about October 15th and again before Thanksgiving. Both examinations must in general be passed before Thanksgiving of the year in which the candidate takes her degree, but the Graduate Committee may, at its discretion, decide to give a candidate who fails at Thanksgiving in either language another trial at some time during the first semester.

If the candidate devotes two years to work for the degree she may take one or both examinations in the first* year.

(b) *Knowledge of English.*

1. *Ability to Write Correct English.*—The candidate must satisfy the Department of English Composition that she is able to write correct English, and in case of failure to do so will be requested by the Graduate Committee to make up deficiencies in this respect by entering a graduate course in English composition. She must also be able to give a report or carry on discussion in satisfactory English.

2. *English Literature, or Literature of Other Languages.*—A candidate is required to present credits in her undergraduate college course for ten semester hours in literature, at least five of which must be English Literature, and in case of failure to do so will be requested by the Graduate Committee to make up deficiencies.

(c) *Knowledge of Latin.*

All candidates are required to have a knowledge of Latin prose of the standard of Cæsar and Cicero. Candidates who have no credit for Latin on entrance to college are required to pass an examination in Latin Prose Authors of the standard of Cæsar and Cicero, and some questions on

* Since the student's entire time should be given to the work of her seminaries, candidates are advised, whenever possible, to prepare for these language examinations before entering the College and to pass them off in the October examination.

grammar may be included. Candidates who have certificates covering part of this ground will be examined on the part in which they are deficient.

Time of this examination: End of first semester. The Graduate Committee may at its discretion grant a second examination early in the second semester to a student who has failed.

(d) *Knowledge of Philosophy, Psychology, Laboratory Sciences, or Mathematics.*

A candidate is required to present credits obtained in her undergraduate college course for twenty semester hours of work in two or more of the subjects, Philosophy, Psychology, Laboratory Science (*i. e.*, Physics, Chemistry, Geology or Biology) or Mathematics, not more than ten of these semester hours to be in any one of these subjects and the twenty hours may not be entirely in Philosophy and Psychology. If, however, the candidate has no entrance credit in a Science which has included laboratory work she will be requested by the Graduate Committee to make up her deficiency by taking in Bryn Mawr College at least six semester hours of Science accompanied by laboratory work which may be counted in the above twenty hours.

Graduate Students who desire to become candidates for the M.A. degree are advised to provide themselves with their complete academic record, including their entrance credits, and to make application for the degree as soon as possible after entering the College, in order that the Graduate Committee may estimate their work and advise them how to make up deficiencies.

In case of a student coming from a college or university outside of the United States when it is impossible to work out exact equivalents in subjects, the Graduate Committee will judge each case on its merits.

Doctor of Philosophy and Master of Arts.

The degree of Doctor of Philosophy and Master of Arts* may be conferred upon graduates of Bryn Mawr College, and upon graduates of other colleges who shall have satisfied the Graduate Committee either that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given by Bryn Mawr College, or that it has been adequately supplemented by subsequent study. The degree is given to no one who cannot read French and German, or who is unacquainted with Latin. The degree of Doctor of Philosophy will in no case be conferred by the College as an honorary degree.

* This is the form in which the degree has always been conferred.

REQUIREMENTS.

1. *Time*.—The earliest date at which the Ph.D. degree may be taken is three years* after graduation, but the element of time is subordinate to the other requirements. The minimum of three years will usually be exceeded.

2. *Residence*.—The candidate must devote to graduate work the equivalent of three full years, of which at least two must be at Bryn Mawr, and the third if not at Bryn Mawr at some other college or university approved by the Graduate Committee.

3. *Subjects*.—The course of study shall consist of one major subject and two minor subjects, of which one (the associated minor) shall be in the same department as the major subject, or in a closely allied department specified in the printed requirements; the other (the independent minor) shall complete a combination authorized in the printed requirements. Certain combinations will permit the independent minor to be taken in the same department as the associated minor, when this is not in the same department as the major subject. The printed list of independent minors shall consist of subjects that are recommended, and the Graduate Committee shall have power to accept subjects not specified in the list.

4. *Courses*.—During the three years devoted to graduate work the candidate shall take a certain number of seminars stated below; in case any part of the three years is spent at some other college or university, the Graduate Committee shall determine the Bryn Mawr equivalents of the courses there taken.

In the major subject together with the associated minor the candidate shall take during each of three years one journal club and two seminars, or graduate courses recognized by the Graduate Committee as seminars;† in the independent minor she shall take for one year two seminars, or graduate courses recognized as seminars. The division of the seminars between the major and the associated minor shall be subject to the approval of the Supervising Committee. In no case shall less than two seminars and one journal club for two years be taken in the major subject.

The required courses may be spread over more than three years; but the student may not take four required seminars with one instructor unless authorized by the Graduate Committee.

No post-major work or work equivalent to post-major shall count towards the degree, even though a candidate may be obliged to take such work in order to supplement her preparation in her subjects, except in the case of such courses in science as shall be designated in the calendar and accepted by the Graduate Committee as equivalent to graduate seminars in virtue of assigned supplementary reading or laboratory work or both.

Of the courses required in the major and associated minor, two seminars and one journal club for at least two years must be taken before

* It is understood that the work done for the separate degree of Master of Arts does not necessarily count as a full year towards the degree of Doctor of Philosophy and Master of Arts.

† A course will not be regarded as equivalent to a seminar unless it requires about fourteen hours a week of the student's time.

the Preliminary Examination, as well as the whole of the work in the independent minor. All must be completed before the Final Examination.

5. *Dissertation.*—The dissertation must be the result of independent investigation in the field covered by the major subject, under such direction as may be necessary; it must contain new results, arguments, or conclusions, or it must present accepted results in a new light. It must be published within three years from the Commencement after the candidate has passed the Final Examination, unless a special extension of time is granted by the Graduate Committee; and 150 copies (including the vita), of which two must be bound in a specified manner, must then be supplied to the College. The candidate shall not be entitled to use the degree until her dissertation shall have been published in approved form.

6. *Examinations.*—The progress and attainments of the candidate shall be tested by examinations as explained in the printed regulations.

Registration.—Before an applicant for the degree of Ph.D. can be admitted as a candidate she must submit* to the Graduate Committee in writing an account of her general preparation, stating in particular the extent of her knowledge of Latin, French, and German; stating also the subjects she wishes to offer as major and minors for the degree, and the amount and character of the work already done in these subjects. If this statement is satisfactory she will be registered as a candidate. When the Graduate Committee decides that the candidate's preparation is in any way insufficient she will be required to undertake suitable extra work.

Expenses.

For graduate students attending six or more hours a week of lectures, and for fellows and graduate scholars the tuition fee is two hundred dollars a year, payable half yearly in advance at the beginning of each semester. For other graduate students who do not wish to devote all their time to graduate work the fees are as follows, payable in advance: for one hour a week of lectures, eighteen dollars a semester; for two hours a week of lectures, thirty-six dollars a semester; for three hours a week of lectures, forty-eight dollars a semester; for four or five hours a week of lectures, sixty-five dollars a semester.†

* Using the application blank issued by the Graduate Committee.

† The fees charged are reckoned on the basis of the actual hours of conference or lecture irrespective of the number of undergraduate hours to which the course is regarded as equivalent.

In counting the number of hours for which a graduate is registered the following special arrangements are made in regard to laboratory courses: payment for a one hour lecture course in a scientific department entitles the student to four hours of laboratory work in addition with no extra charge except the laboratory fee. Students registered for laboratory work only, are charged the following tuition fee: for each two and one-half hours of undergraduate laboratory course and for each five hours of graduate laboratory course the same fee as for a one hour lecture course. The laboratory fees as stated on page 39 are charged in addition to the charge for tuition.

This arrangement is made especially for non-resident graduate students, but those who wish to take five hours a week of lectures or less may live in the College halls on the understanding that they must give up their rooms if needed for students who are taking the full amount of graduate work and paying the regular tuition fee. The tuition fee for the semester becomes due as soon as the student is registered in the College office. No reduction of this fee will be made on account of absence, dismissal during the currency of the semester, term, or year covered by the fee in question, or for any other reason whatsoever. Graduate students are admitted to residence or to attendance on lectures at any time during the year, and in this case a proportionate reduction is made in the charges for board and room-rent and for tuition. Every student who enters the College must register immediately at the Comptroller's office, and must register her courses at the President's office within two weeks after entrance under penalty of exclusion from the College. Any change made later in the courses registered must be reported immediately to the President's office, or the courses will not be permitted to count, and a charge of one dollar will be made for each change made in the course after it has been definitely registered.

Graduate students taking courses in scientific departments (Physics, Chemistry, Geology, Biology, and Psychology) amounting to six or more hours a week of lecture courses or its equivalent in laboratory courses are charged a laboratory fee of twenty-one dollars and fifty cents a semester with the following exceptions: if the student takes, as a regular student, courses in subjects not enumerated above amounting to six hours a week the laboratory fee is reduced to fifteen dollars a semester; and if she takes, as a regular student, courses in subjects not enumerated above amounting to ten hours a week the laboratory fee is reduced to seven dollars and a half a semester.

Graduate students taking less than six hours a week of lectures, or its equivalent in laboratory work, and graduate students taking one undergraduate laboratory course only are charged a laboratory fee of fifteen dollars a semester for every laboratory course of four or more hours a week, and of seven dollars and fifty cents a semester for every laboratory course of less than four hours a week.

In courses in Geology each hour of field work counts as one hour of laboratory work.

Graduate students taking courses in the department of Social Economy and Social Research are charged a laboratory fee of ten dollars a semester and are also required to provide themselves with two 50-trip tickets between Bryn Mawr and Philadelphia costing \$18.36. Any extra expenses for train fares or car fares or other charges in connection with the work required by the department will be defrayed by the department.

The fee for laboratory courses in Applied Psychology and Educational Psychology is \$6 a semester.

Residence.

Residence in the college buildings is optional except for holders of resident fellowships and scholarships. In each hall of residence, except Merion Hall, a special wing or corridor is reserved for graduate students, and in order to secure entire quiet no undergraduate students are permitted to engage rooms in the graduate wings. The expense of board and residence in the graduate wings of the College halls is five hundred dollars. Of this amount four hundred dollars is the charge for board, and is payable half-yearly in advance; the remainder is room-rent, and is payable yearly in advance. Every student has a separate bedroom. Room-rent includes all expenses of furnishing, service, heating and light.

Plans and descriptions of the academic buildings and of the halls of residence, Merion Hall, Radnor Hall, Denbigh Hall, Pembroke Hall West, Pembroke Hall East, and Rockefeller Hall, with a full account of the halls and tariff of rooms, are published as Part 4 of the Bryn Mawr College Calendar and may be obtained by application to the Secretary of the College. Each of the halls of residence (except Pembroke, which has a common dining-hall and kitchen for the two wings) has its separate kitchen and dining-hall, provides accommodation for from sixty to seventy students, and is under the charge of a resident warden.

Application for rooms should be made as early as possible. The demand for graduate rooms is very great, and since every room unnecessarily reserved may prevent some other student from entering the college, a deposit of fifteen dollars is required in order that the application may be registered. In case the applicant enters the College in the year for which the room is reserved, the amount of the deposit is deducted from the first College bill. If she changes the date of her application or files formal notice of withdrawal at the Secretary's office before July fifteenth of the year for which the application is made, the deposit will be refunded. If, for any reason whatever, the change or withdrawal be made later than July fifteenth, the deposit will be forfeited to the College. Students making application for a room for the second semester forfeit the deposit if they do not file formal notice of withdrawal at the Secretary's

office before December first of the academic year for which the room is reserved. In order to make application for a room it is necessary to sign a room-contract, which will be sent on application, and return it with the fee of fifteen dollars to the Secretary and Registrar of the College. A deposit of fifteen dollars must also be made by each student in residence in order to insure the tenure of her room for the following academic year. This sum will be forfeited if formal notice of withdrawal is not filed at the office of the Secretary and Registrar on or before May first of the current year.

Every applicant giving up later than the first of September the room or suite of rooms assigned to her for the ensuing academic year is responsible for the rent thereof for the whole year. Every applicant for a room for the second semester is responsible for the rent of the room or suite of rooms assigned to her for this semester, unless she gives formal notice of withdrawal to the Secretary and Registrar before the first of January. The charges for room-rent are not subject to remission or deduction under any circumstances, or in case of withdrawal for any cause whatever, even though during the currency of a semester, term, or year paid for in advance the student shall be dismissed. The applicant is not entitled to dispose of the rooms thus left vacant, this right being reserved exclusively by the College.

Any student who changes her room is required to pay an extra fee of fifteen dollars.

Students are expected to provide their own rugs, curtains and towels, but in every other respect the rooms are completely furnished. Electric reading lamps, table napkins, sheets, etc., are provided by the College. No part whatever need be taken by the students in the care of their own rooms.

There are open fire-places in nearly all the studies and in many single rooms, but the rooms are sufficiently heated by steam. The air in each room is changed every ten minutes, and the temperature is regulated by a thermostat in each room. The students' personal washing may be done by any laundry recommended by the college for one dollar a dozen, or about \$16 a half-year for one dozen pieces a week.

Accommodation is provided for graduate students that wish to remain at the College during the Christmas and Easter vacations at \$15.50 a week. At Christmas the College halls are closed, but accommodation is provided on or near the College campus. At Easter graduate students may occupy their own rooms in the halls of residence at the above rate. Graduate students remaining during the vacations in the neighbourhood of Bryn Mawr are required to take advantage of these arrangements and will be charged at the above rates for the period of the vacation unless they inform the Secretary and Registrar of the College in advance of their intention to spend the vacation elsewhere, and register their addresses in the College office.

The health of the students is under the charge of a Health Committee consisting of the President, the Dean of the College,

the Director of Physical Training, the Senior Warden, and the physicians of the college.

The Assistant Resident Physician of the college is in her office in the college infirmary during the hours from eight to eight-thirty and four to five-thirty every day, except Saturday and Sunday, and may be consulted by the students without charge.

All entering resident graduate students are required to have a medical, physical and oculist's examination and to follow the health directions of the physicians of the college which will be given them after the examination; those who are reported by the physicians of the college as suffering from uncorrected eye trouble will be expected to take the necessary measures to correct it.

Every student entering the college will be vaccinated unless she can furnish satisfactory proof that she has been successfully vaccinated not more than two years previously.

All resident graduate students are required to register regular exercise.

The conduct of the students in all matters not purely academic, or affecting the management of the halls of residence, or the student body as a whole, is in the hands of the Students' Association for Self-Government, which was organized in 1892. All persons studying in Bryn Mawr College, whether graduates or undergraduates, are members of this association.

The College reserves the right to exclude at any time and to cancel the fellowships or scholarships held by students whose conduct or academic standing renders them undesirable members of the College community, and in such cases the fees due or which may have been paid in advance to the College will not be refunded or remitted in whole or in part.

In 1893 the Bryn Mawr Graduate Association was organized by the graduate students then in residence, its object being to further the social life of the graduate students. A room in Denbigh Hall is set apart by the College to be used as a club-room. Informal meetings are frequently held in this room, and several times during the year the Association invites the Faculty and friends of the College to larger social gatherings, which are addressed by well-known speakers.

Summary of Expenses of Graduate Students.

Tuition for the semester, payable on registration:

For one hour* a week of lectures.....	\$ 18.00
For two hours a week of lectures.....	\$ 36.00
For three hours a week of lectures.....	\$ 48.00
For four or five hours a week of lectures	\$ 65.00
For six or more hours a week of lectures.....	\$100.00

Room-rent for the academic year, payable on registration.....	\$100.00
Board for the semester payable on registration.....	\$200.00

Total expenses for the academic year:

Tuition fee, for six or more hours a week of lectures.....	\$200.00
Room-rent.....	\$100.00
Board.....	\$400.00
Infirmary fee.....	\$ 10.00

* Total for tuition, residence, and infirmary care for the academic year... \$710.00

Laboratory fees for the academic year.....\$12 to \$43

Students whose fees are not paid before November first in the first semester and before March first in the second semester are not permitted to continue in residence or in attendance on their classes.

THE STUDENTS' LOAN FUND OF BRYN MAWR COLLEGE was founded by the Class of 1890 for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed is distributed in the form of partial aid, and as a loan. It is as a rule applied to the assistance of those students only who have attended courses in the College for at least one year. The Fund is managed by a committee consisting of the President of the College and representatives of the Alumnae Association of Bryn Mawr College. The committee reports yearly to the Board of Trustees and to the Alumnae Association. The committee consists of the following members: President M. Carey Thomas; Professor Lucy Martin Donnelly, Chairman, Bryn Mawr College; Miss Doris Earle, Chestnut Hill, Pa.; Miss Katharine Leonard Howell, 3307 Hamilton Street, Philadelphia; Miss Anne Hampton Todd, 2115 Spruce Street, Philadelphia, and Miss Emma Osborn Thompson, 506 South Forty-eighth Street, Philadelphia. Contributions may be sent to any member of the committee. Applications for loans should be sent to the Chairman of the committee, and all applications for any given year should be made before May 1st of the preceding academic year.

Libraries.

The fact that the College is situated in the suburbs of Philadelphia enables the student to make use of all the resources of the libraries of Philadelphia, as well as those of the College proper.

The College library has been collected within the past thirty-seven years, and is designed to be, as far as possible, a library for special study. There are at present on its shelves about ninety thousand bound volumes, and ten thousand dissertations and pamphlets, the collection including the classical

* See footnote, page 38. Graduate students are also charged a fee of \$2.50 a year for the support of the athletic grounds.

library of the late Professor Sauppe, of Göttingen, which was presented to the College in 1894, and the Semitic library of the late Professor Amiaud, of Paris, acquired in 1892. A more detailed description of these two collections may be found on pages 54 and 76.

The sum of about seven thousand dollars is expended yearly for books under the direction of the heads of the several collegiate departments, and, in addition to many gifts of books, about twenty thousand dollars has been presented to the library during the past ten years for expenditure in special departments. Over four hundred publications and reviews in the English, Greek, French, Italian, Spanish, German, and Swedish languages, are taken by the library, as follows:

General and Miscellaneous Periodicals.

Abhandlungen der Königlichen Bayerischen Akademie der Wissenschaften zu München.

*Amherst Graduates' Quarterly.

Asia.

Athenæum.

Atlantic Monthly.

Bookman.

Bookman (English).

Bookseller.

*Bryn Mawr Alumnae Quarterly.

Bulletin of Bibliography.

*Bulletin of the New York Public Library.

*Bulletin of the Pan-American Union.

Il Carroccio.

Century.

Contemporary Review.

Cumulative Book Index.

Dearborn Independent.

Deutsche Rundschau.

Dial.

Drama.

Les écrits nouveaux.

Edinburgh Review.

English Review.

La Esfera.

Fortnightly Review.

Forum.

La France.

Göttingische Gelehrte Anzeigen.

Harper's Monthly Magazine.

Harvard Graduates' Magazine.

L'Illustration.

L'Illustrazione Italiana.

Independent.

Inter-America.

Jahresverzeichniss der an den deutschen Schulanstalten erschienenen Abhandlungen.

*Japan Society Bulletin.

*Johns Hopkins University, Circulars.

Larousse mensuel illustré.

Library Journal.

Literary Digest.

Living Age.

Mercure de France.

Mercury.

Mind and Body.

Minerve Française.

*Monthly Bulletin of the Carnegie Library of Pittsburgh.

Münchener allgemeine Zeitung.

Nachrichten von der Königlichen Gesellschaft der Wissenschaften, Göttingen.

Nation.

Nation (English).

Neue Rundschau.

New Republic.

New Statesman.

New York Times Index.

Nineteenth Century.

North American Review.

Notes and Queries.

Nouvelle Revue Française.

Nuevo Mundo.

Nuova Antologia.

Outlook.

*Pennsylvania Library Notes.

Preussische Jahrbücher.
Public Affairs Information Service
Bulletin.
Publishers' Weekly.
Punch.
Quarterly Review.
Reader's Guide to Periodical Literature.
Review of Reviews.
Revue Critique d'Histoire et de Littérature.
Revue de Paris.
Revue des Deux Mondes.
Revue Internationale de la Croix-rouge.
Revue Politique et Littéraire; Revue Bleue.
Saturday Review.
Scientia.
Scribners Magazine.

Sewanee Review.
Sitzungsberichte der Königlichen Bayerischen Akademie der Wissenschaften.
Sitzungsberichte der Königlichen Preussischen Akademie der Wissenschaften zu Berlin.
Spectator.
Der Türmer.
*University of California, Publications.
*University of Colorado, Studies.
*University of Missouri, Studies.
*University of Nebraska, Studies.
*University of Nevada, Studies.
*University of Texas, Studies.
*University of Washington, Studies.
Weekly Review.
Die Woche.
World's Work.

Newspapers.

*College News, Bryn Mawr.
Corriere della Sera.
*Home News, Bryn Mawr.
London Times.

New York Evening Post.
New York Times.
Philadelphia Public Ledger.
El Sol.

Art and Archaeology.

American Journal of Archæology.
Archæologike Ephemeris.
Art and Archæology.
Art Bulletin.
Art in America.
Boletin de la Sociedad Castellana a Excursiones.
Boletin de la Sociedad Española a Excursiones.
British School at Athens, Annual.
Bulletin of the Metropolitan Museum of Art, New York.
*Bulletin of the Rhode Island School of Design.
Bulletino della Commissione archaeologica comunale de Rome.
Burlington Magazine.
Denkmäler der Malerei des Altertums.
Gazette des Beaux Arts.
International Studio.
Jahrbuch des Deutschen Archäologischen Instituts.

Jahreshefte des Österreichischen Archäologischen Instituts in Wien.
Journal of Hellenic Studies.
Journal international d'archéologie numismatique.
Journal of the American Institute of Architects.
Mittheilungen und Nachrichten des Deutschen Palästina Vereins.
Mittheilungen des Deutschen Archäologischen Instituts, Athenische Abteilung.
Mittheilungen des Deutschen Archäologischen Instituts, Römische Abteilung.
Museum Journal.
*Museum of Fine Arts Bulletin, Boston.
Notizie degli Scavi di Antichità.
Revue archéologique.
Rivista d'arte.
Syria.
Zeitschrift des Deutschen Palästina Vereins.

Economics and Politics.

*Advocate of Peace.
All Opinions of the U. S. Supreme Court.
*American Association for International Conciliation, Publications.

American City.
American Economic Review.
*American Economist.
American Federationist.

- American Journal of International Law.
 American Municipalities.
 American Political Science Review.
 *The Americas.
 Annalist.
 Annals of the American Academy of
 Political and Social Science.
 Bibliographie der Sozialwissenschaften.
 Bulletin of Russian Information.
 Canadian Municipal Journal.
 Citizens Business.
 City Record, Boston.
 Columbia Law Review.
 Columbia Studies in History, Economics
 and Public Law.
 *Congressional Record.
 Economic Journal.
 Good Government.
 Great Britain, Quarterly List of Official
 Publications.
 Guaranty News.
 Handbuch der öffentlichen Rechte.
 Harvard Law Review.
 Jahrbücher für Nationalökonomie und
 Statistik.
 Johns Hopkins University Studies in
 Historical and Political Science.
 Journal of Political Economy.
 Journal of the Royal Statistical Society.
 Millards' Review.
 Minnesota Municipalities.
 Modern City.
 Municipal Journal, Baltimore.
 Municipal Research.
 National Municipal Review.
 National Tax Association Bulletin.
 Political Science Quarterly.
 Proceedings of the Academy of Political
 Science.
 Proportional Representation Review.
 *Public Works.
 Publications of the American Economic
 Association.
 Quarterly Journal of Economics.
 Revue bibliographique.
 Revue générale de Droit international pub-
 lic.
 Searchlight on Congress.
 Short Ballot Bulletin.
 *Single Tax Review.
 Suffragist.
 Yale Review.
 Zeitschrift für Volkswirtschaft, Social-
 politik u. Verwaltung.

Social Economy and Social Research.

- *Advance.
 American Child.
 American Child Hygiene Association,
 Transactions.
 American Flint.
 American Industries.
 American Journal of Public Health.
 American Journal of Sociology.
 American Labor Legislation Review.
 *American Pressman.
 American Review of Tuberculosis.
 *Bakers' Journal.
 *Bridgeman's Magazine.
 *Broom-maker.
 Bulletin of the International Labour Office.
 Bulletin of the National Tuberculosis
 Association.
 Bulletin of the National Society for Voca-
 tional Education.
 *Bulletin of the New York State Depart-
 ment of Labor.
 Bulletin of the Taylor Society.
 *Carpenter.
 Charity Organization Review.
 *Cigarmakers' Journal.
 *Commercial Telegraphers' Journal.
 Community Center.
 Economic World.
 *Electrical Worker.
 *Elevator Constructor.
 Eugenics Review.
 Factory.
 Filing.
 *Forbes.
 *Garment Worker.
 *Granite Cutters' Journal.
 Housing Betterment.
 Industrial Arts Index.
 Industrial Information Service.
 Industrial Management.
 Industrial News Survey.
 *Institution Quarterly.
 *International Bookbinder.
 *International Musician.
 *International Steam Engineer.
 Iron Age.
 Journal of Criminal Law.
 Journal of Delinquency.
 Journal of Heredity.
 Journal of Industrial Hygiene.
 *Journal of the Cigar Makers' International
 Union.
 Journal of the Outdoor Life.
 *Journeyman Barber.

- Labor Bulletin of the Massachusetts Bureau of Statistics.
Labor Gazette.
*(The) Lather.
*Law and Labor.
*Leatherworkers' Journal.
Life and Labor.
*Longshoremen.
*Machinists' Journal.
*Metal Polishers' Journal.
*Motorman and Conductor.
*Mixer and Server.
Nation's Business.
National Conference of Social Work Bulletin.
100%, The Efficiency Magazine.
*Ohio State Institution Journal.
The Organizer.
*Painter and Decorator.
*Papermakers' Journal.
*Patternmakers' Journal.
*Paving Cutters' Journal.
*Plasterer.
Playground.
*Plumbers' Journal.
Proceedings of the National Conference of Social Work.
*Progressive Labor World.
Publications of the American Statistical Association.
*Public Health, Michigan.
*Quarry Workers' Journal.
*Railway Carmen's Journal.
*Railway Clerk.
*Retail Clerks' International Advocate.
Seaman's Journal.
*Shoeworkers' Journal.
Social Hygiene.
Social Hygiene Bulletin.
Social Service Review.
*Stereotypers' and Electrotypers' Journal.
Survey.
System.
*Tailor.
*Teamsters', Chauffeurs', Stablemen and Helpers' Magazine.
*Textile Worker.
*Tobacco Workers' Journal.
*Trade Union News.
Transactions of the American Child Hygiene Association.
*Typographical Journal.
*United Association of Journeymen Plumbers' Journal.
*U. S. Bureau of Immigration, Publications.
*U. S. Bureau of Labor Statistics, Bulletin.
*U. S. Bureau of the Census, Publications.
*U. S. Children's Bureau, Publications.
*University of Illinois, Studies in Social Sciences.
*University of Minnesota, Studies in Social Sciences.
Women's Industrial News.
Women's Trade Union Review.
*Woodcarver.

Education.

- †Berichte der Dalcroze Schule.
Education.
Educational Review.
Educational Times.
Elementary School Journal.
English Journal.
Journal of Educational Psychology.
Journal of Educational Research.
Journal of Experimental Pedagogy.
*Journal of the Association of Collegiate Alumniæ.
Lehrproben und Lehrgänge.
Manual Training Magazine.
National Education Association, Publications.
National Society for the Study of Education Yearbook.
Normal Instructor.
Pädagogische Studien.
Pedagogical Seminary.
Revue International de l'Enseignement Supérieur.
Revue Universitaire.
School and Society.
School Journal.
School Review.
School Science and Mathematics.
Supplementary Education Monographs.
Teachers' College Contributions to Education.
Teachers' College Record.
*U. S. Bureau of Education, Bulletin.
*University of California Publications, Education.
Zeitschrift für pädagogische Psychologie.
Zeitschrift für Schulgesundheitspflege.

History.

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| <p>American Historical Association, Reports.
 American Historical Review.
 *Catholic Historical Review.
 English Historical Review.
 Historical Manuscripts Commission, Reports.
 Historische Vierteljahrschrift.
 Historische Zeitschrift.
 History.
 *Illinois State Historical Society Journal.
 Jahresberichte der Geschichtswissenschaft.</p> | <p>Klio, Beiträge zur alten Geschichte.
 New York Times Current History of the European War.
 Révolution française.
 Revue des Études Napoléoniennes.
 †Revue des Questions historiques.
 Revue historique.
 Round Table.
 Royal Historical Society, Transactions.
 Selden Society, Publications.</p> |
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Philology and Literature, Classical.

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| <p>†Bulletin bibliographique et pédagogique du Musée Belge.
 Classical Journal.
 Classical Philology.
 Classical Quarterly.
 Classical Review.
 Classical Weekly.
 Commentationes philologicae jenenses.
 Dissertationes philologicae halenses.
 Harvard Studies in Classical Philology.
 Hermes.
 Jahresbericht über die Fortschritte der klassischen Altertumswissenschaft.
 Journal of Roman Studies.
 †Le Musée Belge, Revue de Philologie classique.</p> | <p>Mnemosyne.
 Philologische Untersuchungen.
 Philologus.
 Quellen und Forschungen zur lateinischen Philologie.
 Revue de Philologie.
 Revue des Études grecques.
 Rheinisches Museum für Philologie.
 Rivista di Filologia.
 Sokrates.
 Studi Italiani di Filologia classica.
 †Studi Storici per l'Antichità classica.
 Wiener Studien, Zeitschrift für klassische Philologie.
 Wochenschrift für klassische Philologie.</p> |
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Philology and Literature, General and Comparative.

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| <p>American Journal of Philology.
 Berliner philologische Wochenschrift.
 †Eranos.
 Indogermanische Forschungen.
 Journal of English and Germanic Philology.
 Journal of Philology.
 Neue Jahrbücher für das klassische Altertum, Geschichte und deutsche Literatur.</p> | <p>Philological Society, London, Publications.
 Transactions of the American Philological Association.
 Zeitschrift für die österreichischen Gymnasien.
 †Zeitschrift für vergleichende Sprachforschung.</p> |
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Philology and Literature, Modern.

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| <p>Acta Germanica.
 Anglia.
 Anglistische Forschungen.
 †Annales Romantiques.
 Archiv für das Studium der neueren Sprachen.
 Archivio Glottologico Italiano.
 Arkiv för Nordisk Filologi.
 Beiblatt zur Anglia: Mitteilungen über englische Sprache und Litteratur.
 Beiträge zur Geschichte der deutschen Sprache und Literatur.</p> | <p>Bibliographical Society of America, Publications.
 Bibliographical Society of London, Transactions.
 Bonner Studien zur englischen Philologie.
 British Society of Franciscan Studies.
 Bulletin hispanique.
 Bulletino della Società Dantesca Italiana.
 Chaucer Society Publications (both series).
 Deutsche Literaturzeitung.
 Deutsche Texte des Mittelalters.
 Dialect Notes.</p> |
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- Early English Text Society, Publications (both series).
 English Leaflet.
 Englische Studien.
 Euphorion.
 Forschungen zur neueren literaturgeschichtlichen.
 †German American Annals.
 †Germanisch-romanische Monatsschrift.
 Giornale Storico della Letteratura italiana.
 Goethe Jahrbuch.
 Henry Bradshaw Society, Publications.
 Hispania.
 Jahrbuch der Deutschen Shakespeare Gesellschaft.
 Jahrbuch des Vereins für niederdeutsche Sprachforschung.
 Jahresbericht über die Erscheinungen auf dem Gebiete der germanischen Philologie.
 Kieler Studien zur englischen Philologie.
 Korrespondenzblatt des Vereins für niederdeutsche Sprachforschung.
 †Kritischer Jahresbericht über die Fortschritte der romanischen Philologie.
 Literarische Echo.
 Literarisches Centralblatt.
 Literaturblatt für germanische und romanische Philologie.
 †Le Maître phonétique
 Malone Society, Publications.
 Materialien zur Kunde des älteren englischen Dramas.
 Modern Language Notes.
 Modern Language Review.
 Modern Languages.
 Modern Philology.
 Münchener Beiträge zur romanischen und englischen Philologie.
 Palaestra.
 Poet-lore.
 Praeger deutsche Studien.
 Publications of the Modern Language Association.
 Quellen und Forschungen zur Sprach- und Kulturgeschichte der germanischen Völker.
 Rassegna Bibliografica.
 Revista de Filología Española.
 Revue Celtique.
 Revue d'Histoire Littéraire de la France.
 †Revue Germanique.
 Revue Hispanique.
 Romania.
 Romanic Review.
 Romanische Forschungen.
 Schriften der Goethe Gesellschaft.
 Scottish Text Society, Publications.
 Société des Anciens Textes Français, Publications.
 Société des Textes Français Modernes, Publications.
 Studien zur englischen Philologie.
 University of North Carolina. Studies in Philology.
 Wiener Beiträge zur englischen Philologie.
 Yale Studies in English.
 Zeitschrift für den deutschen Unterricht.
 Zeitschrift für deutsche Philologie.
 Zeitschrift für deutsches Altertum und deutsche Literatur.
 Zeitschrift für deutsche Wortforschung.
 Zeitschrift für französische Sprache und Literatur.
 Zeitschrift für romanische Philologie.

Philology and Literature, Semitic.

- American Journal of Semitic Languages and Literatures.
 Jewish Quarterly Review.
 Journal of the Royal Asiatic Society.
 Journal of the Society of Oriental Research.
 †Recueil de Travaux relatifs à la Philologie et à l'Archéologie égyptiennes et assyriennes.
 Zeitschrift für ägyptische Sprache und Altertumskunde.
 Zeitschrift für Assyriologie.

Philosophy and Psychology.

- American Journal of Psychology.
 †Année psychologique.
 Archiv für die gesammte Psychologie.
 Archiv für Geschichte der Philosophie.
 Archiv für systematische Philosophie.
 Archives de Psychologie.
 †Archives of Psychology.
 Behavior Monographs.
 †Berichte über den Kongress für experimentelle Psychologie.
 British Journal of Psychology.
 British Journal of Psychology: Monograph Supplements.
 †Bulletin de l'Institut Psychologique.

Fortschritte der Psychologie.
 Hibbert Journal.
 International Journal of Ethics.
 †Journal de Psychologie.
 Journal für Psychologie und Neurologie.
 Journal of Abnormal Psychology.
 †Journal of Animal Behaviour.
 Journal of Applied Psychology.
 †Journal of Experimental Psychology.
 Journal of Philosophy.
 Mind.
 Monist.
 Philosophical Review.
 Proceedings of the Aristotelian Society.
 Proceedings of the Society for Psychical Research.
 Psychological Bulletin.
 Psychological Clinic.
 Psychological Review.

Psychological Review; Monograph Supplements.
 Psychological Review; Psychological Index.
 †Psychologische Arbeiten.
 †Psychologische Studien.
 Revue de Métaphysique.
 †Revue de Psychothérapie.
 Revue philosophique.
 Training School Bulletin, Vineland.
 *University of Toronto Studies, Psychology Series.
 Vierteljahrschrift für wissenschaftliche Philosophie u. Soziologie.
 Zeitschrift für angewandte Psychologie.
 Zeitschrift für Psychologie und Physiologie der Sinnesorgane: 1. Abt., Zeitschrift für Psychologie. 2. Abt., Zeitschrift für Sinnesphysiologie.

Religion.

American Friend.
 Anglican Theological Review.
 †*Christian Register.
 Expositor.
 Expository Times.
 Harvard Theological Review.
 Journal of Biblical Literature.
 Journal of Religion.
 Journal of Theological Studies.
 Pilgrim.

*Publications of the American Jewish Historical Society.
 Religious Education.
 Revue biblique.
 *Spirit of Missions.
 *Union Signal.
 *Woman's Missionary Friend.
 *World Outlook.
 World Tomorrow.

Science, General.

American Journal of Science.
 Atti della Reale Accademia delle Scienze di Torino.
 British Association for the Advancement of Science, Reports.
 *Bulletin of the University of Wisconsin, Science Series.
 Comptes Rendus des Séances de l'Académie des Sciences.
 International Catalogue of Scientific Literature.
 *Kansas University, Science Bulletin, Nature.
 *New York State Museum Bulletin.
 Philosophical Magazine.

Philosophical Transactions of the Royal Society of London.
 Proceedings of the American Philosophical Society.
 Proceedings of the National Academy of Sciences.
 Proceedings of the Royal Society of London, Science.
 Scientific American.
 Scientific American Monthly.
 Scientific Monthly.
 *U. S. National Museum, Publications.
 *University of Missouri Studies, Science Series.

Science, Biology.

American Anthropological Association, Memoirs.
 American Anthropologist.
 American Journal of Anatomy.

American Journal of Physiology.
 American Naturalist.
 Anatomischer Anzeiger.
 Archiv für Anatomie und Physiologie.

* Presented by the Publishers.

† Suspended publication.

‡ In Christian Association Library.

Archiv für die gesammte Physiologie.
 Archiv für Entwicklungsmechanik der
 Organismen.
 Archiv für mikroskopische Anatomie.
 Bibliographia physiologica.
 Biologisches Centralblatt.
 Biometrika.
 Botanisches Centralblatt.
 Centralblatt für Physiologie.
 Endocrinology.
 Eugenics Laboratory Memoirs.
 Genetics.
 *Illinois Biological Monographs.
 Jahrbücher für wissenschaftliche Botanik.
 Journal de Physiologie.
 Journal of Biological Chemistry.
 Journal of Experimental Medicine.
 Journal of Experimental Zoology.
 Journal of General Physiology.
 Journal of Genetics.
 Journal of Morphology.
 Journal of Physiology.

Journal of the Royal Microscopical
 Society.
 *Midland Naturalist.
 Quarterly Journal of Microscopical
 Science.
 Stazione Zoologica di Napoli, Publica-
 zioni.
 *U. S. Public Health Service, Publications.
 *University of California Publications,
 Physiology.
 *University of California Publications,
 Zoology.
 *University of Pennsylvania, Contribu-
 tions from the Botanical Laboratories.
 *University of Pennsylvania, Contribu-
 tions from the Zoological Laboratories.
 *University of Toronto Studies, Biological
 Series.
 *University of Toronto Studies, Physio-
 logical Series.
 *Wilson Bulletin.
 Zeitschrift für wissenschaftliche Zoologie.
 Zoologischer Anzeiger.

Science, Geology, and Geography.

Centralblatt für Mineralogie.
 Economic Geology.
 Geographical Journal.
 Geological Magazine.
 Geologisches Centralblatt.
 *Georgia Geological Survey Bulletin.
 *Illinois Geological Survey Bulletin.
 Journal of Geography.
 Journal of Geology.
 Meteorologische Zeitschrift.
 Mineralogical Magazine.

Mineralogische und petrographische Mit-
 theilungen.
 National Geographic Magazine.
 Neues Jahrbuch für Mineralogie, Geologie
 und Paläontologie.
 Philadelphia Geographical Society Bulletin.
 Quarterly Journal of the Geological
 Society.
 *U. S. Monthly Weather Review.
 *University of Toronto Studies, Geological
 Series.

Mathematics, Chemistry, and Physics.

Acta Mathematica.
 American Journal of Mathematics.
 Annalen der Chemie.
 Annalen der Physik.
 Annales de Chimie.
 Annales de Physique.
 Annales scientifiques de l'Ecole Normale
 Supérieure.
 Annali di Matematica.
 Astrophysical Journal.
 Beiblätter zu den Annalen der Physik.
 Berichte der deutschen chemischen Gesell-
 schaft.
 Bibliotheca Mathematica.
 Bolletino di Bibliografia e Storia delle
 Scienze Matematiche.
 Bulletin de la Société Chimique de France.

Bulletin de la Société Mathématique.
 Bulletin des Sciences mathématiques.
 Bulletin of the American Mathematical
 Society.
 Cambridge Tracts in Mathematics.
 Chemisches Zentralblatt.
 Giornale di Matematiche.
 Jahrbuch über die Fortschritte der
 Mathematik.
 Jahresbericht der deutschen Mathematiker
 Vereinigung.
 Journal de Chimie physique.
 Journal de Mathématiques.
 Journal de Physique.
 Journal für die reine und angewandte
 Mathematik.
 Journal für praktische Chemie.

Journal of the London Chemical Society.
 Journal of Physical Chemistry.
 Kolloidzeitschrift.
 Mathematische Annalen.
 Messenger of Mathematics.
 Monatshefte für Chemie.
 Physical Review.
 Physikalische Zeitschrift.
 Proceedings of the London Mathematical Society.
 Quarterly Journal of Mathematics.

Rendiconti del Circolo Matematico di Palermo.
 Science Abstracts.
 Transactions of the American Mathematical Society.
 *U. S. Bureau of Standards Bulletin.
 Zeitschrift für anorganische Chemie.
 Zeitschrift für Elektrochemie.
 Zeitschrift für Mathematik und Physik.
 Zeitschrift für physikalische Chemie.

The library is open daily from eight A. M. to ten P. M. Books may be taken out by the students unless specially reserved for library reference use.

There are in Philadelphia the following important libraries which are available for students:

The *Library Company of Philadelphia*, which contains about 275,000 volumes, divided between the Locust Street Building and the Ridgway Branch. Its valuable collection of pamphlets is included in the number of volumes as given above. The Library is open from nine A. M. to five-thirty P. M., and is open to students for consultation freely during these hours. To take books from the building a deposit must be made or subscriptions will be received as follows: Twelve dollars for one year, six dollars for six months, four dollars for three months.

The *Mercantile Library*, which contains about 215,000 volumes. Private subscription, \$5.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains about 81,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

The *Library of the University of Pennsylvania*, which contains about 495,000 volumes and 50,000 pamphlets. The custodians of this library have always shown great courtesy in placing rare volumes at the disposal of the College.

The *Free Library of Philadelphia*, which contains 595,398 volumes and 349,115 pamphlets, and is at all times open to the students for consultation.

The *American Philosophical Society Library*, which contains over 67,000 volumes, admission by card.

The *Historical Society of Pennsylvania Library*, which contains over 150,000 bound volumes, and 250,000 pamphlets, is for reference only. The collection of manuscripts is one of the best in the country comprising 7,000 volumes. Every courtesy is extended to members of the College.

Sanskrit and Comparative Philology.

The instruction in this department is under the direction of a non-resident lecturer in Comparative Philology and Sanskrit.

GRADUATE COURSES.

The following graduate courses are offered in each year:

Lectures on Comparative Philology and Philological Seminary.

Two hours a week throughout the year.

Students entering this course are expected to be familiar with German and French. A short preliminary course in Sanskrit is also of great aid to the student. The lectures on comparative philology treat of the connection of the Greek and Latin languages with the related languages of the Indo-European group, first, phonetically, secondly, from the point of view of grammatical forms, and lastly, from the point of view of syntax. In the first part of the course which covers what during the last few years has been the field of the most active research the student is introduced to the latest theories and discoveries in Aryan phonetics, and is expected to read and criticize the articles appearing from time to time in the philological journals, and to prepare reports on these articles. The same method is pursued during the investigation of the history of forms; and in the third part of the course the student begins the study of comparative syntax by a close comparison of the use of cases and verbal forms in Sanskrit, Greek, and Latin.

Elementary Sanskrit.

Two hours a week throughout the year.

Whitney's *Grammar* is used, and the classical selections from Lanman's *Reader* are read. Lectures are given on the phonology and morphology of Sanskrit.

The courses in Comparative Philology and in Elementary Sanskrit will not, as a rule, be given in the same year.

Second Year Sanskrit.

One or two hours a week throughout the year.

The Vedic selections in Lanman's *Reader* are read, with some additional hymns from the *Rigveda*. Selections from the classical literature are read at sight. Exercises in etymology are given to supplement the lectures on the phonology.

Advanced Sanskrit.

Two hours a week throughout the year.

Selected texts are read: the *Bhagavad-Gītā*; Kālidāsa's *Çakuntalā*, Acts I and II, with a careful study of the Prākṛit; selected hymns of the *Atharvaveda*. During the second semester the course is conducted as a seminary, with use of the native commentaries.

Greek.

The instruction in this department is under the direction of Dr. Henry Nevill Sanders, Professor of Greek; Dr. Wilmer Cave Wright,* Professor of Greek; Mr. George Cyril Armstrong,

* Granted leave of absence for the year 1920-21. The courses announced by Dr. Wilmer Cave Wright for the year 1920-21 are given by Mr. George Cyril Armstrong.

Lecturer in Greek, and Miss Abby Kirk, Reader in Elementary Greek.

Exceptional facilities for the study of all departments of classical philology are offered by the large classical library owned by the College. The greater part of this library is formed by the well-known collection of the late Professor Hermann Sauppe of Göttingen, which was acquired in 1894. This has been supplemented by purchases made by the college library, so that the classical library now numbers some seven thousand volumes, including complete sets of most of the important journals, and about seven thousand dissertations and monographs.

GRADUATE COURSES.

The graduate seminaries in Greek are varied from year to year in two series, Attic Tragedy, Orators, and Historians, and the Homeric Question, Plato, and Aristophanes, in order that they may be pursued by a student for consecutive years. Students electing Greek as a major subject for the degree of Doctor of Philosophy must offer not less than two seminaries and the journal club for two years and if Greek be also elected as the associated minor the candidate must offer two seminaries and one journal club for three years. A list of approved associated minors and independent minors is given in the Regulations of the Academic Council. The post-major courses also are open to graduate students. A large part of the work expected of graduate students consists of courses of reading pursued under the direction of the department, and reports of this reading are from time to time required of the students. A reading knowledge of French and German is required. The course in Comparative Philology is recommended to graduate students of Greek. For graduate courses in Classical Archæology, which may be offered as an associated or independent minor by students taking Greek as a major for the degree of Doctor of Philosophy, see page 110.

No undergraduates are admitted to graduate courses.

Dr. Sanders conducts in each year the following graduate seminary:

Greek Seminary.

Three hours a week throughout the year.

In 1920-21 Attic Tragedy is the subject of the seminary. The work of the seminary in textual criticism is devoted to Sophocles. Members of the seminary report on assigned subjects and give critical summaries of current classical literature.

In 1921-22 Greek Orators will be studied in the seminary. The work consists of the reading of large portions of all the orators and the critical interpretation of a selected part of each. Lectures are given on legal antiquities, the syntax, and the style of the various authors, in conjunction with which Dionysius of Halicarnassus and the Greek rhetoricians are studied. The later rhetoricians are treated and their criticism of antiquity investigated. Students are expected to provide themselves with the Teubner

text editions of Antiphon, Andocides, Lysias, Isocrates, Isæus, Æschines, Hyperides, and Demosthenes. The classical library is well equipped with works on the orators.

In 1922-23 Greek historians will be the main subject of the seminary. Thucydides is studied in detail and reports are made on data of history contained in Greek literature in general. Lectures are given by the instructor on subjects connected with Greek historiography, such as the composition of Thucydides's history, the syntax and style of Thucydides, the history of early prose, Greek historical inscriptions.

Dr. W. C. Wright* conducts in each year the following graduate seminary:

Greek Seminary.

Two hours a week throughout the year.

In 1920-21 Plato is the subject of the seminary. The work is mainly literary and critical. Lectures on the style, philosophy, and chronology of the dialogues are given by the instructor; a detailed interpretation of a portion of Plato, and reports on topics set for discussion are given by the class. The students are expected to read the *Republic*, *Theætetus*, *Parmenides*, and *Sophist* and discuss certain problems arising from these dialogues. The aim of the course is to lay a foundation for independent work by familiarizing the students with the achievements of scholarship and the general field of Platonic literature up to the present day. Every member of the seminary should provide herself in advance with a complete text of Plato. The Clarendon Press (Oxford) edition is recommended.

In 1921-22 the Homeric Question will be the subject of the seminary; the work consists of a review of the discussions of the Homeric poems since the publication of Wolf's *Prolegomena*. The various tests that have been applied to the poems by archaeologists, linguists, historians of myths, and æsthetic critics are taken up and criticized in detail.

In 1922-23 Aristophanes will be the subject of the seminary. The aim of the seminary is to make the students familiar with the more important Aristophanic literature up to the present day. Portions of the text are interpreted by the class and reports on assigned topics, literary, historical, and archaeological, connected with the plays are expected from all the members. All the comedies of Aristophanes are read in the course of the year; lectures are given by the instructor on the metres and syntax of Aristophanes, on the dramatic structure of the plays and on the history of Attic comedy. Part of the work consists of analyses of dissertations on Aristophanes which are presented by members of the class. Every member of the class should provide herself in advance with a complete text of Aristophanes. The Clarendon Press (Oxford) edition is recommended.

Dr. Sanders and Dr. W. C. Wright* together conduct the Greek journal club:

Greek Journal Club.

One and a half hours once a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent articles and books on subjects connected with the Greek classics.

POST-MAJOR COURSES.

Dr. Sanders offers in 1920-21 the following post-major courses, open to graduate students:

Æschylus, Eumenides.

Two hours a week during the first semester.

Sophocles, Trachiniæ.

One hour a week during the first semester.

* See footnote, page 53.

Greek Rhetoricians and Greek Prose Composition.

One hour a week during the second semester.

Bacchylides.

One hour a week during the second semester.

Euripides, *Bacchæ*.

One hour a week during the second semester.

Dr. Sanders offers in 1921-22 the following post-major courses, open to graduate students:

Æschylus, *Oresteia*.

Two hours a week during the first semester.

Fourth Century Critics.

One hour a week during the first semester.

Pindar.

Two hours a week during the second semester.

Sophocles, *Electra* or Euripides, *Electra*.

One hour a week during the second semester.

Dr. Sanders offers in 1922-23 the following post-major courses, open to graduate students:

Minor Orations of the Attic Orators. *Two hours a week during the first semester.*

Sophocles, *Oedipus Coloneus* *One hour a week during the first semester.*

Æschylus, *Agamemnon*. *Two hours a week during the second semester.*

Greek Prose Composition and the Evolution of Style.

One hour a week during the second semester.

Dr. W. C. Wright* offers in 1920-21 the following post-major courses, open to graduate students:

Theocritus. *Two hours a week during the first semester.*

Æschylus, *Septem* or Lucian. *Two hours a week during the second semester.*

Dr. W. C. Wright offers in 1921-22 the following post-major courses, open to graduate students:

Palatine Anthology. *Two hours a week during the first semester.*

Sophocles, *Ajax*. *Two hours a week during the second semester.*

Dr. W. C. Wright offers in 1922-23 the following post-major courses, open to graduate students:

Melic Poets. *Two hours a week during the first semester.*

Plato, *Republic*. *Two hours a week during the second semester.*

* See footnote, page 53.

FREE ELECTIVE COURSES.

Dr. W. C. Wright offers in each year the following free elective courses:

History of Greek Literature.

Two hours a week throughout the year.

Greek Religion and Greek Myths. *Two hours a week during the first semester.*

This course is supplementary to Greek and English literature and to Oriental and Classical Archæology and treats of the development of Greek religion, the attributes of the Olympian Gods, such as Zeus and Apollo, their ritual, and the influence on literature of Greek myths. In 1920-21 Mr. Armstrong gave in place of this course a course on Greek Religion and Thought, two hours a week throughout the year.

Literary Geography of Greece and Asia Minor,

Two hours a week during the second semester.

This course traces not only the literary legends of famous sites such as Athens, Thebes, Troy and Constantinople, but also their political history.

Latin.

The instruction in this department is under the direction of Dr. Arthur Leslie Wheeler,* Professor of Latin, Dr. Horace Wetherill Wright, Associate in Latin, and Dr. Mary Hamilton Swindler, Associate in Latin and Archæology.

GRADUATE COURSES.

The graduate work in Latin is conducted according to the seminary method, and is intended not only to broaden the student's knowledge, but also to teach methods of work. The graduate courses in Latin are varied from year to year in three series, Roman Lyric Poetry, Elegy, and Comedy, and Roman Religion, Latin Epigraphy, and Roman Epic Poetry. Students electing Latin as a major subject for the degree of Doctor of Philosophy must offer not less than two seminaries and the journal club for two years and if Latin be also elected as the associated minor the candidate must offer two seminaries and the journal club for three years. A list of approved associated and independent minors is given in the Regulations of the Academic Council. It is desirable that all students who intend to do advanced work in Latin should have some knowledge of Greek. A reading knowledge of French and German is necessary.

No undergraduates are admitted to graduate courses.

Dr. Wheeler conducts in each year the following graduate seminary:

Latin Seminary.

Three hours a week throughout the year.

In 1920-21 Roman Elegy as represented by Tibullus, Propertius, and Ovid is the subject of the seminary. In addition to a careful study of selected poems an effort is made

* Granted leave of absence for the year 1921-22. The courses offered by Dr. Wheeler in this year will be given by a substitute whose appointment will be announced later.

to trace the history of elegy among the Romans. The various topics connected with the subject are treated in detail as far as time permits, and the students are encouraged to familiarize themselves with the best literature in editions, periodicals, and dissertations. The texts recommended are the Oxford Clarendon Press editions of Catullus and Tibullus, edited by Ellis and Postgate, and the Leipsic (Teubner) text of Propertius, edited by C. Hosius, 1911. The best commentaries are Kirby Smith's *The Elegies of Tibullus*, New York, 1913 (American Book Co.), and M. Rothstein's *Die Elegien des Sextus Propertius*, Berlin, 1898 (Weidmann). For Catullus see Roman Lyric.

In 1921-22 *Latin Comedy will be the subject of the seminary. All the plays of Plautus and Terence are read by the students; single plays form the basis of special work on the language, text, metres, etc. Students should provide themselves with the text edition of Plautus, edited by Goetz and Schoell, Leipsic, Teubner, 1892-1904, or that of W. M. Lindsay, Oxford, 1903-04, and with Dziatzko's text of Terence, Leipsic, Tauchnitz, 1884. The plays of Plautus, annotated by Brix, Leipsic, Teubner, 1901-12, and by Lorenz, Berlin, Weidmann, 1876-86, and the plays of Terence, annotated by Dziatzko (revised by Hauler), 1898 and 1913 (Teubner), and by Spengel, 1879 and 1905 (Weidmann), are also recommended. *P. Terenti Afri Commoedæ*, edited by S. G. Ashmore, Oxford University Press, New York, 1908, is a convenient commentary.

In 1922-23 Roman Lyric in the Period of the Republic will be the subject of the seminary. After a rapid survey of the fragmentary lyric remains of the predecessors and contemporaries of Catullus, the poems of Catullus himself are studied in detail. Students should have *Catulli carmina* (Oxford text, 1904), edited by Robinson Ellis, and either the same scholar's *Commentary on Catullus*, Oxford, Clarendon Press, 1889 (second edition), or G. Friedrich's *Catulli Veronensis liber*, Leipsic and Berlin, 1908 (Teubner).

Dr. H. W. Wright conducts in each year the following graduate seminary:

Latin Seminary.

Two hours a week throughout the year.

In 1920-21 the work of the seminary during the first semester is Latin Epigraphy. The major portion of the course will be devoted to a study of the *Corpus Inscriptionum*. The questions assigned for investigation deal mainly with Roman political institutions, public and private life, and religion.

In the second semester the Topography of Rome is studied. There are illustrated lectures, and the students are required to present frequent reports based on a detailed investigation of the discoveries affecting individual sites. Special emphasis is laid upon sites prominent in the religious history of the city.

In 1921-22 the subject of the seminary will be Roman Epic. After a preliminary study of the fragments of Naevius, Ennius and other epic writers of Republican Rome, the remainder of the year will be devoted to the Aeneid. There will be lectures and the students will present reports bearing on Vergil's *sources* and technique and the text of the poems.

In 1922-23 Roman Religion from prehistoric times through the reign of Augustus will be studied. After introductory lectures with assigned reading, which survey the development of Roman religious life and thought, the students will be required to present frequent reports on individual cults and priesthods, basing their work on the original sources and the investigations of leading modern scholars in the field.

Dr. Wheeler,* Dr. H. W. Wright and Dr. Swindler together conduct the Latin journal club.

Latin Journal Club.

One and a half hours once a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent articles and books on subjects connected with the Latin classics.

* See footnote, page 57.

POST-MAJOR COURSES.

Dr. Wheeler offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Roman Elegy.

Two hours a week throughout the year.

An effort is made to trace historically the development of this branch of poetry among the Romans. Selections from Catullus, Tibullus, Propertius, and Ovid are read. The readings are supplemented by occasional lectures. Special attention is devoted to the structure and reading of the elegiac distich and to the characteristics of Roman poetic diction. Each student is required to prepare papers and reports on assigned topics in each semester.

Dr. Wheeler* offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

Roman Satire.

Two hours a week throughout the year.

The subject is treated historically in order to give an outline of the origin and development of Satire. The class reads selections from Horace, Persius, Seneca, Petronius, and Juvenal, together with some of the fragments of Ennius, Lucilius, and Varro. The readings are supplemented by occasional lectures. Each student is required to prepare papers and reports on assigned topics in each semester.

Dr. H. W. Wright offers in 1920-21 and again in 1922-23 the following post-major courses, open to graduate students:

The Life and Works of Vergil.

Three hours a week during the first semester.

The larger part of the *Aeneid*, two books of the *Georgics* and some of the minor poems are read and discussed.

Latin Prose Composition.

Two hours a week throughout the year.

Roman Prose of the Empire.

Three hours a week during the second semester.

Selections from Velleius, Seneca, Quintilian, Tacitus, Suetonius, Apuleius, and Minucius Felix are read.

Dr. H. W. Wright offers in 1921-22 and again in 1923-24 the following post-major courses, open to graduate students:

Lucretius and Catullus.

Three hours a week during the first semester.

Selections from the *De Rerum Natura* and from the lyrics of Catullus are read.

Latin Prose Composition.

Two hours a week throughout the year.

Cicero and Cæsar.

Three hours a week during the second semester.

An effort is made by means of lectures, discussions, and extensive reading to gain an intimate acquaintance with the literary work and the political careers of Cicero and Cæsar.

MODERN LANGUAGES.

Professors and instructors: Dr. M. Carey Thomas, Dr. Fonger DeHaan, Miss Lucy Martin Donnelly, Dr. Carleton Fairchild Brown (elect), Dr. Regina Katharine Crandall, Dr. Eunice

* See footnote, page 57.

Morgan Schenck, Dr. Samuel Claggett Chew, Dr. Howard James Savage, Mr. Samuel Arthur King, Dr. Agnes Rutherford Riddell, Miss Marcelle Pardé, Dr. Eduard Prokosch, Mr. Claude Gilli, Mr. Joaquin Ortega, Dr. Mary Agnes Quimby, Miss Carolina Marcial Dorado,* Miss Mary Sinclair Crawford, Miss Esther Cloudman Dunn, Miss Katharine Forbes Liddell, Miss Amphilis T. Middlemore, Miss Edna Eimer, and Miss Margaret Georgiana Melvin.

English.

The instruction in this department is under the direction of Dr. M. Carey Thomas, Professor of English, Miss Lucy Martin Donnelly, Professor of English, Dr. Carleton Fairchild Brown, Professor (elect) of English Philology, Dr. Regina Katharine Crandall, Professor of English Composition, Dr. Samuel Claggett Chew,† Professor of English Literature, Dr. Howard James Savage, Associate Professor of Rhetoric and Director of the Work in English Composition, Mr. Samuel Arthur King, Non-resident Lecturer in English Diction, Dr. Eduard Prokosch, Associate Professor of German, and Miss Esther Cloudman Dunn, Miss Katharine Forbes Liddell, Miss Amphilis T. Middlemore and Miss Edna Eimer, Instructors in English, and Miss Margaret Georgiana Melvin, Reader in English.

GRADUATE COURSES.

There are offered each year graduate seminaries and courses in English literature and in English language, and these seminaries and courses are varied so as to enable candidates for the degree of Doctor of Philosophy to pursue graduate work for three or more successive years. The graduate instruction in English literature includes the direction of private reading and the assignment of topics for investigation. The graduate courses in literature presuppose at least as much knowledge as is obtained in the two years' course of undergraduate lectures on English literature and in one of the literature courses of the English major; and the graduate courses in Anglo-Saxon presuppose as much knowledge of Anglo-Saxon as is obtained in the language course in the English major. All students offering English as a subject for the degree of Doctor of Philosophy must have taken at least the equivalent of the composition in the required English course.

* Granted leave of absence for the year 1920-21.

† Granted leave of absence for the year 1921-22. The courses announced by Dr. Chew for this year will be given by a substitute whose appointment will be announced later.

Students who elect English literature as their major subject in their examination for the degree of Doctor of Philosophy must offer English philology as the associated minor and those who offer English philology as a major subject must offer English literature as the associated minor. In the major together with the associated minor the student must offer two seminaries and a journal club for three years. A list of approved independent minors is given in the Regulations of the Academic Council. No undergraduates are admitted to graduate courses.

Miss Donnelly conducts in alternate years the following graduate seminary:

Seminary in English Literature.

Two hours a week throughout the year.

In 1920-21 Donne and Milton are the subjects of the seminary. They are studied in their relation to such contemporary influences as Platonism and the Church and Puritanism and in especial to the sources and development of poetical style in the seventeenth century.

In 1922-23 Eighteenth Century Prose will be the subject of the seminary. Swift, Addison, and Steele will be studied. Attention will be given to their relations to both contemporary politics and literature.

In 1924-25 the Romantic Poets will be the subject of the seminary. Special attention is paid to Shelley and Byron and to the phases of Romanticism shown in their work. Their relations to their contemporaries in England and on the Continent are discussed.

Miss Donnelly offers in each year special assignments of reading and reports for foreign students who have come intending to study American literature and to prepare for examinations in it abroad.

Dr. Brown conducts in 1921-22 and in each succeeding year the following graduate seminary:

Seminary in Middle English.

Three hours a week throughout the year.

In 1921-22 the Beginnings of English Drama will be the subject of the seminary. After tracing the emergence of plays in the vernacular from the liturgical drama, the evolution of the leading English mystery cycles is studied. In considering the morality plays their connection with mediæval allegories, debates, and didactic treatises is specially examined. The lectures given by the instructor are designed to afford a general survey of the drama (both religious and secular) in England to the accession of Queen Elizabeth. Critical reports on assigned topics are required from the students.

In 1922-23 Middle English Romances will be the subject of the seminary. All the romances represented in Middle English are read, and the relation of these English versions to their Latin and Old French originals are discussed. The romance cycles are taken up in the following order: Troy story, Alexander saga, Arthurian cycle, romances of Germanic origin, Charlemagne cycle. Special investigations of problems relating to the romances are undertaken from time to time by the members of the seminary.

In 1923-24 the seminary will study *The Vision of Piers the Plowman* and the works of Chaucer. Attention is devoted not so much to the critical reading of the texts themselves as to the examination of the questions of authorship and chronology which have recently been raised. These poems are also discussed in their relation to the other literature of the fourteenth century. Special subjects for individual investigation are assigned to the members of the seminary.

Dr. Chew conducts in each year the following graduate seminary:

Seminary in English Literature.

Three hours a week throughout the year.

In 1920-21 the seminary is devoted to aspects of the Elizabethan and Jacobean Drama.

In 1921-22* the subject of the seminary will be the poetry and prose of Wordsworth and the novel of the Romantic Period.

In 1922-23 various aspects of the literature of the Victorian era will be studied.

Dr. Crandall conducts in each year the following graduate seminaries:

Seminary in English Composition.

Two hours a week throughout the year.

The chief business of the seminary is the discussion and criticism of the students' own writing. Its aim is to make familiar and apply the principles and standards of criticism that have developed with the development of literature; the subject of study in each year is adapted to the purpose and interests of the students.

In 1920-21 modern fiction, English, French, and Russian, is the subject of the seminary.

In 1921-22 the seminary will study the manner of writers of biography and memoirs, among others Boswell, Lord Morley, and Henry Adams.

In 1922-23 the subject of the seminary is historical writing and includes a study of the manner of Gibbon, J. R. Green, Motley, Parkman, and other historians.

Seminary in American Literature for Foreign Students.

Two hours a week throughout the year.

The subject of the seminary is the history of American literature, more especially in the latter half of the nineteenth century. The seminary is intended primarily for foreign students and may not be counted for the degree of Doctor of Philosophy.

Dr. Brown offers in 1922-23 and again in 1924-25 the following graduate courses:

Beowulf.

Two hours a week throughout the year.

This course begins with a careful textual study of the Beowulf. After discussing the problems of editing, a general survey of Beowulf criticism is presented including theories as to the composition of the poem, and an inquiry into its historical and mythological elements. In this connection a study is also made of the other pieces of Anglo-Saxon heathen poetry. This course is open to graduate students who have already taken the course in Anglo-Saxon grammar and reading of Anglo-Saxon texts, or its equivalent.

English Historical Grammar.

Two hours a week throughout the year.

In this course the development of the English Language is traced from the earliest times. After an outline has been given of the history and external relations of English, the change and decay of inflections, the use of prepositions and the more important points in historical syntax are discussed. The course presupposes a knowledge of Anglo-Saxon and Middle English. The students examine various documents of the different periods to discover evidence of the operation of linguistic principles. This course is given by Dr. Prokosch in 1920-21 combined with a graduate course in Anglo-Saxon amounting to four hours a week throughout the year.

Dr. Brown offers in 1921-22 and again in 1923-24 the following graduate course:

Cynewulf and Cædmon.

Two hours a week throughout the year.

* See footnote, page 60.

Several of the poems traditionally ascribed to these authors are critically studied. Lectures are given with a view to furnishing a thorough introduction to Anglo-Saxon Christian poetry and the literary problems connected with it. This course is open to graduate students who have already taken the course in Anglo-Saxon grammar and reading of Anglo-Saxon texts or its equivalent.

Dr. Savage offers in each year the following graduate course:

Technical and Advanced Criticism. *Two hours a week during the first semester.*

In this course attention will be given to bibliography, the tabulating of critical data, the planning and writing of papers, reports, and dissertations, critical usage, and other matters. Materials collected for other courses in research are available for use in this work.

Dr. Brown, Miss Donnelly, Dr. Chew,* Dr. Crandall, Dr. Savage, and Dr. Prokosch together conduct the English journal club.

English Journal Club. *One and a half hours a fortnight throughout the year.*

The advanced students and the instructors meet to report on and discuss recent reviews and critical articles.

The following advanced undergraduate courses may be attended by graduate students:

Miss Donnelly offers in 1921-22 and again in 1923-24 the following course:

English Romantic Poets. *Five hours a week during the second semester.*

The poets studied in this course are Wordsworth, Coleridge, and Shelley in the first semester and in the second, Byron, and Keats. Their works are discussed in class in connection with questions of poetics and literary theory and reports are required from students attending the course.

Dr. Chew* offers in each year the following courses:

English Critics of the Nineteenth Century.

Five hours a week during the first semester.

Carlyle, Ruskin, Huxley, Arnold, Pater and Morley, and, if time allows, two or three other writers, are studied with regard to their theories of criticism and their influence upon the thought of their time. A report is required from each student attending this course.

The Elizabethan and Jacobean Drama.

Five hours a week during the first semester.

A large number of plays by the dramatists from Lyly and Marlowe to Ford and Shirley are read. The lectures deal in part with aspects of contemporary life as reflected in the drama. A report is required from each student attending this course.

Dr. Chew offers in 1920-21 and again in 1922-23 the following course:

English Poetry, 1850-1914. *Five hours a week during the second semester.*

A rapid review of the progress of poetry during the first half of the nineteenth century is followed by more detailed study of the poets of the later period.

* See footnote, page 60.

Dr. Chew* offers in 1921-22 and again in 1923-24 the following course:

English Literature from Dryden to Johnson.

Five hours a week during the second semester.

The poets from Butler to Thomson; the philosophers from Hobbes to Hume; the novel from Defoe to Fielding; the beginning of English historical writing; and the essayists are the chief subjects studied in this course.

Dr. Brown offers in 1921-22 and again in 1923-24 the following courses:

Middle English Romances.

Five hours a week during the first semester.

Selected romances in Middle English are read by the members of the class. The lectures deal with the development of Romance literature in Europe with special reference to the romances of the Arthurian cycle, and the discussion includes a review of the development of medieval themes in later periods.

Middle English Poetry, Chaucer.

Five hours a week during the second semester.

The course begins with an outline of Middle English grammar sufficient to enable the students to read ordinary texts intelligently. Lectures are given on the development of the language and literature during this period. In the course on Chaucer the best of the *Canterbury Tales* are studied, also the *Legend of Good Women*, *The House of Fame*, and portions of *Troilus and Criseyde*. The lectures discuss Chaucer's sources and literary art, and his relation to the English, French, and Italian literature of his time.

Dr. Brown offers in 1922-23 and again in 1924-25 the following courses:

Anglo-Saxon Prose and Beowulf.

Five hours a week during the first semester.

The first half of the course is devoted to an outline of Anglo-Saxon grammar as presented in Siever's *Old English Grammar* (Cook's translation) and to the reading of the prose selections in Bright's *Anglo-Saxon Reader*. After reading one or two of the shorter Anglo-Saxon poems, the *Beowulf* is taken up (Wyatt and Chambers' text) and the first two-thirds of the poem is read with the class.

Shakespeare.

Five hours a week during the second semester.

A careful study is made of a number of Shakespeare's plays, selected with a view to illustrating his earlier and later work. The plays usually chosen are: *King Lear*, *Henry IV*, Part I, *Hamlet*, *Romeo and Juliet*, and *The Tempest*. Some of the more general problems connected with these plays are discussed in introductory lectures and various topics are taken up, such as the principles of tragedy and comedy, the use of allegory and the development of Shakesperian criticism.

Dr. Crandall offers in each year the following elective course:

Argumentation.

Two hours a week throughout the year.

The writing of arguments, the study of the form with reference to other types of writing, and other problems connected with argumentation, formal and informal, make up the work of the course. If possible, some attention will be paid to oral composition.

Dr. Crandall offers in 1920-21 and again in 1922-23 the following elective courses:

The Short Story.

Two hours a week throughout the year.

* See footnote, page 60.

The course deals with various forms of narrative, more especially the short story, and includes a study of the work of representative authors, both English and French.

Versification.

Two hours a week throughout the year.

The course is not historical but theoretical and practical. Students are required to write short exercises in verse every week.

Dr. Crandall offers in 1921-22 and again in 1923-24 the following elective courses:

Daily Themes.

Two hours a week during the first semester.

Short papers on subjects chosen by the students themselves are required from each student and discussed in the class.

Criticism.

Two hours a week throughout the year.

The course includes a study of the principles of criticism and the writing of critical expositions, the essay, and kindred forms.

Dr. Savage offers in 1921-22 and again in 1923-24 the following course:

The Technique of the Drama.

Two hours a week throughout the year.

This course is open only to those students who can assure the instructor that they can pursue the work with profit. It deals with the theory of the drama, the building of scenarios, adaptation, and the writing of original longer and shorter plays; and with the observation of dramatic technique in plays read and seen.

Dr. Savage offers in 1920-21 the following course:

English Fiction in the Nineteenth Century.

Five hours a week during the second semester.

A study of the principal types of English prose fiction during the last century, the short story and the novel, with attention to their origins, development, and technique.

Dr. Savage offers in 1921-22 and again in 1923-24 the following course:

Materials and Methods of Teaching Composition.

Two hours a week during the second semester.

This course is intended for graduate students and for undergraduates who expect to teach English; its aim is to present some of the problems of collegiate instruction in composition: the planning and supervision of courses, reports on departments in various colleges, and allied problems. Practice in writing is gained through reports of varying character and length.

Mr. King offers in each year the following course in English Diction for graduate students:

General Course in Articulation and Voice Production.

One half hour a week throughout the year.

The object of this course is to train speakers in accurate and distinct articulation and to eliminate the faults of bad production. Speech is resolved into its phonetic elements which are made the basis of practical exercises so arranged as to be progressive in their difficulties.

Mr. King offers in 1920-21 and again in 1922-23 the following free elective course in English Diction:

General Reading of Prose Authors.

One hour a week throughout the year.

This course is open only to those students who have attended the required course in English diction or who have done equivalent work.

Mr. King offers in 1921-22 and again in 1923-24 the following free elective course in English Diction:

Reading of Shakespeare.

One hour a week throughout the year

This course is open only to those students who have taken the required course in English diction. A special study is made of the principles of correct delivery of blank verse. The needs of those students who intend to teach English literature, and desire to read Shakespeare to their pupils, are given special attention.

ROMANCE LANGUAGES.

French.

The instruction in this department is under the direction of Dr. Eunice Morgan Schenck, Associate Professor of French; Mr. Claude Gilli, Associate Professor of Old French; Miss Marcelle Pardé, Associate in French, and Miss Mary Sinclair Crawford, Instructor in French.

GRADUATE COURSES.

Ten hours a week of seminary work and graduate lectures are offered each year to graduate students of French, accompanied by the direction of private reading and original research. The courses covering the field of Old and Modern French Language and Literature are arranged to form a triennial cycle. The work of each year centres around one main topic to be studied as a part of the history of French literature in its various relations to general literature and civilization of the period concerned. Students may enter a seminary in any year and pursue it during three or more consecutive years. The members of the seminaries report on subjects assigned them at the beginning of each semester.

Students who choose French literature as their major subject in their examination for the degree of Doctor of Philosophy must offer French philology as the associated minor and students who offer French philology as a major subject must offer French literature as the associated minor. A list of approved independent minors will be found in the Regulations of the Academic Council. In the major together with the associated minor the student must offer two seminaries and a journal club for three years.

Dr. Schenck conducts in each year the following graduate seminary:

Seminary in Modern French Literature. *Two hours a week throughout the year.*

In 1920-21 the subject of the seminary is Phases of Romanticism in the Nineteenth Century as illustrated by Hugo, Gautier, and Flaubert. A special study is made of the origin and development of the theory of *L'art pour l'art*.

In 1921-22 the subject of the seminary will be Romanticism and Realism. The origins of romanticism are examined in the rise of "*le cosmopolitisme littéraire*," in eighteenth century French literature and especially in the works of Rousseau and Madame de Staël.

A parallel study of the theories underlying literary and historical realism is made in connection with Taine, Renan, Zola, and Maupassant.

In 1922-23 the subject of the seminary will be Nineteenth Century Drama. After a rapid survey of the theatre of the eighteenth century a careful study is made of the drama of Hugo, Dumas père, Vigny, and Musset, and the extent of the influence of Shakespeare on French romantic drama. The rise and development of realistic comedy are studied and the course closes with an examination of Post-Realism and Symbolism in contemporary French drama.

Mr. Gilli conducts in each year the following graduate seminary:

Seminary in Mediæval French Literature.

Two hours a week throughout the year.

The work expected of graduate students in the seminary in Mediæval French Literature consists of a first hand knowledge of the texts, a review of the opinions expressed by the leading specialists on each subject and a critical discussion of the work in question. The reports are intended to train graduate students in literary research. Students are expected to have a good reading knowledge of Old French and it is recommended that the course in Advanced Old French philology be taken together with this seminary.

In 1920-21 the subject of the seminary is the *Matière de Bretagne et l'Épopée Courtoise*. The course includes a careful study of the *Lais* of Marie de France. The poems referring to Tristan and the *Romans* of Chrétien de Troyes. These are studied in connection with the question of their origin in Celtic countries and their later development in France.

In 1921-22 the origin and development of the *Chansons de Geste* and their influence in other European countries will be studied.

In 1922-23 *La Fable Esopique* and the *Roman de Renard* will be the subject of the seminary. The course will include a study of the *Æsopic* fables in the Middle Ages and treats in detail the extent to which the *Roman de Renard* is based on these fables. The *Ysopet* of Marie de France and the best "branches" of Renard are read.

Mr. Gilli offers in each year the following graduate courses:

Old French Philology.

Three hours a week throughout the year.

Historical Grammar of Old French, followed by Critical Reading of Old French texts. This course is equivalent to a full seminary and counts as such.

Introduction into the Study of Romance Philology.

One hour a week throughout the year.

The study of Vulgar Latin and its evolution in the various parts of the Roman Empire. A critical study of Inscriptions and Glossaries. In the second semester a comparative study of the Phonology of Old Provençal, Old Italian, and Old Spanish will be combined with a special study of easy Old Provençal texts. It is recommended that the course be taken together with advanced Old French Philology or Mediæval French Literature. Graduate students taking the graduate language courses in Italian and Spanish who have not had this course or its equivalent are strongly advised to take it at the same time, and will be given an allowance of three hours in the work required to make these courses equivalent to seminaries. The two courses will together be equivalent to a full seminary and will count as such.

Advanced Old French Philology.

One hour a week throughout the year.

This course is open only to graduate students who have already taken the graduate course in Old French Philology or its equivalent.

The different dialects of Old French, the reconstitution of texts from the MSS., and the elements of Palaeography are the subjects of the course. It is recommended that this course be taken together with the Introduction to the Study of Romance Philology. The two courses will together be equivalent to a full seminary and will count as such.

Advanced Romance Philology.

One hour a week throughout the year.

This course is open only to graduate students who have already taken the graduate course in the Introduction to the study of Romance Philology or its equivalent.

The comparative philology of the various Romance languages including Roumanian is studied with a special consideration of the various Italian dialectical forms.

Mr. Gilli offers in each year one of the following graduate courses:

Old Provençal.

One hour a week throughout the year.

Historical Grammar of the Old Provençal language followed by a study of Old Provençal texts.

Anglo-Norman.

One hour a week throughout the year.

This course will be similar and supplementary to the course in Old Provençal.

Miss Pardé offers in each year the following graduate course:

Modern French Literature.

Three hours a week throughout the year.

The method used in advanced literary instruction in France and known as the "*Explications de textes*" will be employed, students being required to give oral lessons and to write many short papers.

In 1920-21 seventeenth century authors are studied.

In 1921-22 authors of the eighteenth century will be studied.

In 1922-23 the period selected will be the sixteenth century.

Dr. Schenck, Mr. Gilli, Miss Pardé, Miss Crawford, Dr. Riddell, Dr. DeHaan, and Mr. Ortega together conduct the journal club in Romance languages.

Romance Languages Journal Club.

One and a half hours a fortnight throughout the year.

The journal club is intended to make the advanced students familiar with all the important European periodicals and with new books dealing with Romance Philology. For each session of the club an important article chosen from some one of the various periodicals is assigned to a student for review. The student is also referred to previous articles or publications treating of the same subject as that of the review, and is expected to present to the club a chronological outline of the history and stages of the discussion on the given point. Thus the students become familiar with the names of leading Romance scholars and with the particular lines of research in which each of the latter excels. At the same time such reviews prepare the way for seminary work and original investigations.

POST-MAJOR COURSES.

Dr. Schenck offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Modern French Drama.

Two hours a week throughout the year.

The course begins with a study of the plays of the Romantic period, and traces the development of French drama throughout the nineteenth century to the present day. The course is conducted by means of lectures, class-room discussion, and reports.

Dr. Schenck offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

The Short Story (*Nouvelle*) in the Nineteenth Century.

Two hours a week throughout the year.

In the first semester the *nouvelles* of the romantic period are studied in the works of Chateaubriand, Nodier, Vigny, Musset, Balzac, Mérimée, and Gautier. The lectures of the second semester treat the development and modification of realism by Flaubert, Zola, Daudet, Coppée, Loti, Bourget, France, and others, while a careful study of the technique of the *nouvelle* is made in connection with Maupassant.

Miss Pardé offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Evolution of French Lyric Poetry.

Two hours a week throughout the year.

The origins of modern French lyric poetry are discussed with special emphasis on the poets of the "Pléiade." The romantic movement, l'Ecole du Parnasse, and the later nineteenth century poets are also studied.

Miss Pardé offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

The Development of Social Ideals in French Literature.

Two hours a week throughout the year.

The following types will be studied: "Le chevalier" of the Middle Ages (La Chanson de Roland); "l'escolier" (François Villon); "l'homme de la Renaissance (Montaigne, Rabelais); "l'honnête homme" of the 17th century (Molière, La Fontaine, Pascal); "le philosophe" of the 18th century (Voltaire, Rousseau); "le romantique" of the 19th century (Lamartine, Musset); "l'intellectuel" (Renan, Anatole France).

Miss Pardé offers in 1920-21 and in each succeeding year the following post-major course open to graduate students:

Masterpieces of French Literature.

One hour a week throughout the year.

This course is conducted according to the method of the "*Explication de textes*" used in the French Universities. The texts chosen represent typical phases of the French genius, and vary from year to year being chosen from the authors read in the two hour course offered by Miss Pardé so that the course may be taken in two consecutive years.

Mr. Gilli offers in 1921-22 and in each succeeding year the following post-major courses open to graduate students:

Advanced French Composition.

Two hours a week throughout the year.

Introduction to a Study of Historical French Grammar.

One hour a week throughout the year.

In this course the formation and development of French grammar will be studied with special emphasis on Modern French.

FREE ELECTIVE COURSE.

Dr. Schenck offers in each year the following free elective course open to graduate students:

Modern Tendencies in French Literature.

Two hours a week throughout the year.

Contemporary French writers are studied in relation to their predecessors and to modern movements. Lectures, class discussion and reports are in English; the reading in connection with the course is in French.

Only those students are admitted who have completed the course in General English Literature or the course in Major French Literature, and have passed the general language examination in French the autumn preceding their registration for this course. In special cases, where the general language examination has not been taken, the student must satisfy the instructor that her knowledge of French is sufficient for the course.

Graduate students desiring to take this course must satisfy the instructor that their previous literary training is equivalent to that required of undergraduate students, and that their knowledge of French is sufficient.

Italian.

The instruction in this department is given by Dr. Agnes Rutherford Riddell, Associate in Italian, and Dr. Christine Sarauw, Instructor (elect) in Italian, Spanish and German.

GRADUATE COURSES.

The graduate seminary in Italian is varied from year to year in order that it may be pursued by a student for consecutive years. Students electing Italian as a major subject for the degree of Doctor of Philosophy are required to offer French Philology as an associated minor. For the list of approved independent minors see the Regulations of the Academic Council.

Dr. Riddell conducts in each year the following graduate seminary:

Seminary in Italian Literature.

Two hours a week throughout the year.

In 1920-21 the subject of the seminary is the Development of the Short Story. The popular tale, the *novella*, and other manifestations of the story form are studied. Special attention is paid to the modern short story.

In 1921-22 the subject of the seminary will be the Epic, with special study of Boiardo, Ariosto, and Tasso.

In 1922-23 the subject of the seminary will be the Development of the Drama. The early drama, the *commedia dell' arte*, the drama of the eighteenth century, and the modern drama are studied.

If necessary, modifications will be made in the work of the seminary to meet the special requirements of students presenting themselves for it.

POST-MAJOR COURSE.

Dr. Riddell offers in each year the following post-major course open to graduate students:

Modern Italian Drama.

Two hours a week throughout the year.

The course traces the development of the Italian drama from the time of Goldoni to the present day. Representative dramas will be read and discussed.

Spanish.

The instruction in this department is given by Dr. Fonger DeHaan, Professor of Spanish, Mr. Joaquin Ortega, Lecturer in Spanish, Miss Carolina Marcial Dorado,* Instructor in Spanish, and Dr. Christine Sarauw, Instructor (elect) in Italian, Spanish and German.

GRADUATE COURSES.

The graduate seminary in Spanish is varied from year to year in order that it may be pursued by a student for consecutive years. Students electing Spanish as a major subject for the degree of Doctor of Philosophy are required to offer French Philology as an associated minor. For the list of approved independent minors see the Regulations of the Academic Council.

Dr. DeHaan conducts in each year the following graduate seminary:

Seminary in Spanish.

Three hours a week throughout the year.

In 1920-21 Calderon is the subject of the seminary.

In 1921-22 the prose works of Cervantes will be studied.

In 1922-23 some typical plays of Lope de Vega will be the subject of the seminary.

Dr. DeHaan offers in each year, if his time permits, the following graduate courses:

Spanish Philology.

One hour a week throughout the year.

Old Spanish Readings.

One hour a week throughout the year.

The following graduate seminary is offered in each year:

Seminary in Spanish Literature.

Two hours a week throughout the year.

In 1920-21 the historical development of the Spanish novel, with special emphasis on the picaresque novel and on the novels of Cervantes is the subject of the seminary which is conducted by Mr. Ortega.

In 1921-22 Spanish literature of the first half of the nineteenth century will be studied.

In 1922-23 the late sixteenth and early seventeenth century will be the period dealt with.

POST-MAJOR COURSES.

Dr. DeHaan offers in each year the following post-major course open to graduate students:

Advanced Spanish.

Two hours a week throughout the year.

During the first semester Cervantes' *Novelas Ejemplares* and *Don Quijote* are studied; during the second semester the dramatical and poetical works.

*Granted leave of absence for the year 1920-21. The courses announced by Miss Dorado are given in the year 1920-21 by Mr. Joaquin Ortega.

Mr. Ortega offers in 1920-21 the following post-major course open to graduate students:

Spanish Drama.

Three hours a week throughout the year.

Selected plays are read with the object of tracing the development of the Spanish Theatre from Moratin to such representatives of contemporary tendencies as Benavente, the Quintero brothers, Martinez Sierra, Marquina, and others. The translation of dramatic passages from English into Spanish is prescribed in order to train the students in the mastery of Spanish dialogue. The course is conducted by means of lectures, classroom discussions, and reports. This course was given by Dr. DeHaan in the second semester.

In 1921-22 and again in 1923-24 the following post-major course open to graduate students is offered:

The Spanish Short Story.

Three hours a week throughout the year.

This course begins with a study of the Spanish Short Story in the nineteenth and twentieth centuries and traces its origin back to the writers of the Golden Age. A special study is made of the modern tendencies represented by Pardo Bazán, Blasco Ibañez and José Francés. The course includes also a brief survey of the leading short story writers of Latin-America.

In 1922-23 the following post-major course open to graduate students is offered:

Spanish Lyric Poetry.

Three hours a week throughout the year.

German.

The instruction in this department is under the direction of Dr. Eduard Prokosch, Associate Professor of German, Dr. Mary Agnes Quimby, Instructor in German, and Dr. Christine Sarauw, Instructor (elect) in Italian, Spanish and German.

GRADUATE COURSES.

The graduate courses offered in German philology may be found under the head of General Germanic Philology.

Graduate work in the history of modern German literature is conducted according to the seminary method. The courses are so varied that they may be followed by graduate students throughout three successive years and cover the work required of students who offer German literature as a major or a minor for the degree of Doctor of Philosophy. Students who elect German literature as their major subject in the examination for the degree of Doctor of Philosophy must offer Germanic philology as an associated minor and students who offer Germanic philology as a major subject must offer German literature as an associated minor. In the major together with the associated minor the student must offer two seminars and a journal club for three years. A list of approved independent minors is given in the Regulations of the Academic Council.

Dr. Prokosch offers in each year the following graduate seminary:

Seminary in German Literature.

Two hours a week throughout the year.

It is hoped that the students will become familiar in the seminary with the methods of scientific literary criticism and investigation.

In 1920-21 the Romanticism of early modern German literature is studied in the seminary.

In 1921-22 Goethe will be the subject of study in the seminary.

In 1922-23 topics from the classical period of German literature will be studied. Alternative subjects of study will be Luther and the Humanists or Nietzsche.

Other subjects may be substituted in accordance with the needs of the students.

The German journal club is conducted in each year by the instructors in the department.

German Journal Club.

Two hours once a fortnight throughout the year.

At the meetings recent books and articles are reviewed and the results of special investigations presented for discussion, comment, and criticism.

GENERAL GERMANIC PHILOLOGY.

Special attention is called to the facilities for the study of comparative Germanic philology offered by Bryn Mawr College. The English and the German departments together have provided for a complete course in Germanic philology, comprising both the study of the individual languages (Gothic, Norse, Anglo-Saxon, Old Saxon, Old High German, Middle High German, Middle Low German, etc.) and the study of general comparative philology.

The courses in introduction to the study of Germanic philology, Gothic, and Middle High German grammar, are designed for students in their first year of graduate study in Germanic languages, and the remaining courses for students in their second or third year.

Students intending to elect Germanic philology are advised to study Greek for at least one year during their undergraduate course.

GRADUATE COURSES.

Dr. Prokosch offers in each year the following graduate seminary.

Seminary in Germanic Philology.

Two hours a week throughout the year.

This seminary is arranged for the benefit of the most advanced students in Germanic philology. Its object is to encourage independent work on the part of the students. The work consists mainly of the discussion of special topics by the instructor and the students.

Members of the seminary are expected to study the literature on these subjects, and to make an effort to contribute some additional material, or an independent opinion of their own.

In 1920-21 the seminary is devoted to High German texts from the fourteenth to the seventeenth century. The material is taken either from official documents of this period belonging to various parts of Germany or from the works of writers such as Murner, Hans Sachs, Luther, and others; or from grammatical works of this period in Müller's *Quellen-schriften und Geschichte des deutschsprachlichen Unterrichts*, John Meier's *Neudrucke älterer deutscher Grammatiken*, etc. They are selected to illustrate the development of Modern High German. If it seems advisable Old Saxon texts (*Heliand* and *Genesis*) are also studied.

In 1921-22 Old High German texts such as *Merseburger Zaubersprüche*, *Muspilli*, and *Hildebrandslied* will be studied in the first semester. The many problems that these texts offer and the various attempts to solve them are discussed. In the second semester modern High German texts will be the subject of the seminary.

In 1922-23 the subjects of the seminary will be taken from Middle High German texts. Problems in text criticism as well as literary problems connected with the works of Middle High German poets either of the classical period or of the periods preceding or following it will be discussed.

The order of these seminary subjects may be changed in accordance with the requirements of the students in any particular year.

Dr. Prokosch offers in each year the following graduate courses with the understanding that only a limited number will be given, chosen with due regard to the wishes of graduate students:

Introduction to the Study of Germanic Philology.

One hour a week throughout the year.

After a discussion of the aim and method of historical and comparative grammar, these lectures deal with the relation of Teutonic to the cognate Aryan languages. A brief sketch of the single Aryan languages is given, followed by a more comprehensive discussion of the Teutonic languages and chiefly of the West Germanic branch.

Gothic.

Two hours a week throughout the year.

Gothic phonetics and inflection are studied in connection with the elements of comparative Aryan grammar; on the other hand the Gothic forms are compared with those of other Teutonic languages. Braune's *Gotische Grammatik* (8th ed., Halle, 1912); or Streitberg's *Gotisches Elementarbuch* (3rd ed., Heidelberg, 1910) are used as text-books.

As a thorough knowledge of Gothic is the foundation of the study of historical and comparative Teutonic grammar, every graduate student of Teutonic grammar is advised to take this course as early as possible. *Die gotische Bibel* (ed. by W. Streitberg, Heidelberg, 1908) is used by the more advanced students.

Middle High German Grammar and reading of Middle High German Texts.

Two hours a week throughout the year.

This course includes a brief abstract of Middle High German grammar and literature with special reference to the difference between Middle High German and Modern German, and a study of the most prominent authors in Middle High German. Selections from classical Middle High German poets are read, and also selections from the *Nibelungenlied*, a brief account being given of the history and development of the *Nibelungenlied* and its manuscripts.

Students of Middle High German should be provided with Paul's *Mittelhochd. Grammatik* (8th ed., Halle, 1911), or Michels's *Mittelhochd. Elementarbuch* (2nd ed., Heidelberg, 1912).

This course is required of all students that make Germanic philology a minor subject in their examination for the degree of Doctor of Philosophy.

The private reading includes the works of the authors treated in the course.

Middle Low German.

One hour a week throughout the year.

A sufficient knowledge of Old Saxon is presupposed on the part of students taking this course. The Middle Low German grammar is studied and representative Middle Low German texts are read. This course may be substituted for the course in Middle High German in accordance with the requirements of the students in any particular year.

Old Norse.

Two hours a week throughout the year.

Students entering this course are supposed to be acquainted with Gothic and with Anglo-Saxon or Old High German grammar. In the grammatical part of the course the Norse sounds and forms are studied and compared with those of the Gothic and West-Germanic dialects.

In the first year's course prose texts will be read; in the second year the Edda will be studied and some of the problems connected with the study of the Edda will be discussed.

The books used are Heusler's *Altisländisches Elementarbuch* (Heidelberg, 1913) and some of the *Islendinga sögur* (*Altnordische Saga-Bibliothek*) and Hildebrand-Gering's (3rd ed., Paderborn, 1913) or Neckel's (Heidelberg, 1914) *Edda*.

Attention is called to the facilities afforded for the study of Old Norse. A considerable portion of the library of the late philologist, Th. Wisén, of Lund, was acquired by Bryn Mawr College, and hence the library is probably as well supplied as any other college library in the United States with Old Norse texts, and works on Old Norse language and literature.

Old High German.

Two hours a week throughout the year.

This course includes a practical study of Old High German grammar, and a comparison of the Old High German sounds and forms with those of Gothic, Middle and Modern High German. The relations with other cognate languages of the Teutonic branch as well as other Aryan languages (chiefly Latin) are also discussed. Selections are read from Old High German texts, arranged so as to proceed from easy to more difficult pieces, and to illustrate the difference between the Old High German dialects.

Comparative Germanic Grammar.

One hour a week throughout the year.

The study of comparative Germanic philology is recommended to those students only who are acquainted with the single old Teutonic languages, and have studied Gothic, Old High German, Old Saxon, Anglo-Saxon, and Norse. The object of the course is to compare the various old Teutonic languages with each other and with the related Aryan languages,—or in other words (1) to reconstruct the primitive Teutonic language; (2) to point out the characteristic features of primitive Teutonic in distinction from primitive Aryan; (3) to carry down the history of early Teutonic from the period of unity into the early stages of the individual Teutonic languages.

Old Saxon.

Two hours a week during the second semester.

The work presupposes on the part of the students a sufficient knowledge of Gothic and Old High German. Holthausen's *Altsächsisches Elementarbuch* (Heidelberg, 1900) or Gallée's *Altsächsische Grammatik* (2nd ed., Halle, 1910), *Heliand* (Behaghel's edition), and Zangemeister-Braune's *Bruchstücke der altsächsischen Bibeldichtung* (Heidelberg, 1894) are used.

History of Modern High German.

One hour a week throughout the year.

These lectures deal with the history of the development of the German written language during the Modern High German period. The most important *Kanzleisprachen*, the most prominent *Druckersprachen*, Luther, Modern German sounds and forms in their relation to the German dialects and to the rules of the *Bühnenaussprache*, will be discussed.

In addition to the above courses, others in Old Frisian, or Modern Low German may be arranged for students that have previously studied Gothic, Old and Middle High German, Anglo-Saxon, and Old Saxon. A course in Sanskrit is offered which is specially recommended for students of Germanic philology.

Semitic Languages and Biblical Literature.

The instruction in this department is under the direction of Dr. George A. Barton, Professor of Biblical Literature and Semitic Languages.

The college was particularly fortunate in securing in the year 1892 the library of the late M. Arthur Amiaud, of Paris. While M. Amiaud was especially eminent as an Assyriologist, he was also prominent as a general Semitic student. His library was the collection of an active scholar, and forms a working library for the student in every department of Semitic study. It is especially rich in the Hebrew, Syriac, and Assyrian languages, containing several works, indispensable to the student, which are now out of print. Another Semitic library containing many works on the Talmud and on Jewish literature was acquired in 1904. Mr. Albert J. Edmunds presented to the college in 1907 his library of 500 volumes on the history of religion. The contents of these libraries, together with the books already owned by the college and those easily accessible in neighbouring libraries, form an exceptionally good collection of material for the specialist in Semitic languages. A good working collection of cuneiform tablets is under the control of the department, and affords an excellent opportunity for students of Assyrian to become familiar with original documents.

GRADUATE COURSES.

The graduate courses in Semitic languages are varied from year to year, as indicated below, so that they may be pursued by a student for four successive years. Those who offer Semitic languages as the major subject in the examination for the degree of Doctor of Philosophy are required to spend in Semitic work half their time for at least three years.

The work of the department is so arranged that students may specialize in Hebrew or Assyrian. Students who offer Hebrew or Assyriology as the major subject in the examination for the degree of Doctor of Philosophy must possess a knowledge of the grammatical forms of five Semitic languages and in this enumeration Syriac and Jewish Aramaic may not count as separate languages. For a list of approved associated and independent minors see the Regulations of the Academic Council.

The regular alternation of courses is indicated below and at least six hours a week will be given in each year, the courses being selected according to the needs of the graduate students. Graduate students may enter in any year of the four years' course, as there will be afforded each year an opportunity for graduate students to begin Hebrew.

No undergraduates are admitted to graduate courses.

Dr. Barton offers in 1920-21 and again in 1922-23 the following graduate courses:

Semitic Seminary.

Two hours a week throughout the year.

This seminary is devoted to Hebrew or Assyrian, the languages that may be offered as major subjects for the doctor's degree. The time may be devoted to one of these languages, or may be divided between the two, according to the needs of the students. In Assyrian the subject may be chosen from one of the following: the oldest Babylonian inscriptions, temple archives of Telloh, Sumerian hymns, the code of Hammurabi, Semitic contracts or mythological poetry. In Hebrew one of the following subjects may be selected: the historical books, Job, the Psalter, Isaiah, Jeremiah, Ecclesiastes and the Song of Songs, or Hebrew Epigraphy. In the Hebrew seminary the students are trained in textual criticism through the use of the ancient versions.

Seminary in New Testament Greek.

One hour a week throughout the year.

The work of the seminary is varied from year to year, so that a continuous course, covering the interpretation and the literary problems of the entire New Testament and the sub-Apostolic literature, may be pursued through four years. A year is devoted to the New Testament Epistles, another to the interpretation of the Gospels and the Synoptic and Johannine problems, a third to the books of Acts and Revelation, and a fourth to the Apostolic Fathers. During the first year of her work each student is given guidance in a course of reading on the history of the text and the science of textual criticism and also guidance in the practice of this discipline. A course in Greek equivalent to the major course in Greek in Bryn Mawr College is required of students taking this seminary.

Seminary in the History of Religion.

One hour a week throughout the year.

The work of this seminary may be carried on in either of the following ways: By means of lectures, reports, and discussions the principal features of primitive religions are ascertained, and the principal civilized religions studied with special reference to origin, historical development, and religious point of view. The time may be devoted to investigating problems connected with one religion.

Elementary Semitic Languages.

Two hours a week throughout the year.

This course may be devoted to the elements of Hebrew, or of Aramaic (Syriac and Jewish Aramaic), or Assyrian, or Arabic according to the needs of the students. The time may, if necessary, be divided between two of these languages.

Hebrew Literature.

One hour a week throughout the year.

This course is devoted to a study of the Prophets, the Pentateuch, and the historical books of the Old Testament.

Dr. Barton offers in 1921-22 and again in 1922-23 the following graduate courses:

Semitic Seminary.

Two hours a week throughout the year.

The work of the seminary is continued as offered in 1920-21.

Comparative Semitic Grammar.

One hour a week throughout the year.

The grammar of Brockelmann is used as a basis with comparisons from the Egyptian and other Hamitic languages. This course is given in the fourth year of the study of Semitic languages.

Ethiopic.

One hour a week throughout the year.

The grammar and *Chrestomathia* of Praetorius and Dillmann are used and in the latter part of the course selections are read from the book of Enoch.

Seminary in Aramaic and Arabic.

Two hours a week throughout the year.

This seminary is devoted to Arabic or Aramaic, the languages that may be offered as minor subjects for the doctor's degree. The time may be devoted to one of the languages,

or may be divided between the two, according to the needs of the students. In Arabic the subject may be chosen from one of the following: the Quran, pre-Islamic poetry, Arabic geographers, or South Arabic inscriptions. In Aramaic, one of the following subjects may be selected: a comparative study of the Syriac Versions of the Gospels, the Syriac Version of one of the Old Testament books, the writings of Gregory Bar Hebraeus, or of Efraem, the Targum on one of the Old Testament books, the Talmud, or Aramaic inscriptions.

Egyptian.

One hour a week throughout the year.

The elements of Egyptian and Coptic grammar are taught, and some texts in each language interpreted.

Seminary in Oriental Archaeology.

One hour a week throughout the year.

The work of this course may be devoted to the archaeology of Mesopotamia, Palestine, or Egypt according to the needs of the students. It consists of extensive courses of reading in the literature of the subject, together with a study of photographs and archaeological objects, of reports, criticisms, conferences, and occasional lectures. To meet the needs of students of ancient history, the seminary may in some years be devoted to the history of one of the countries mentioned. The work will then consist in a study of the sources of the history of the country chosen, and the proper method of using them.

FREE ELECTIVE COURSES.

Dr. Barton offers each year one of the following free elective undergraduate courses in biblical literature; the course selected by the greatest number of students will be given:

History of the Old Testament Canon.

Two hours a week throughout the year.

In this course the history of the composition of the books of the Old Testament and their collection into a canon are studied. Special attention is given to the literary form and purpose of each book.

History of the New Testament Canon.

Two hours a week throughout the year.

In this course the history of the composition and collection of the books of the New Testament is studied. The instruction is given in lectures, and reading is assigned in the New Testament and in modern literature concerning it.

New Testament Biography.

Two hours a week throughout the year.

The first semester of this course is devoted to a careful study of the life and teaching of Christ; the second semester to the life and teaching of St. Paul. The Gospels and Epistles are read, together with the most helpful of the modern works on these topics. The course is illustrated by photographs of the most important places connected with the lives of Christ and St. Paul.

History of Christian Doctrine.

Two hours a week throughout the year.

In the first semester the study is devoted to the Old Testament conceptions of God, Sin, and Redemption, and to Christianity as presented by its Founder and by the apostles, and in the second semester the history of Christian doctrine from 100 A. D. to the present time is briefly reviewed, and problems presented by modern thought are touched upon.

The Religions of the World.

Two hours a week throughout the year.

The course begins with a study in primitive religions of certain fundamental conceptions. The great historical religions of the world are then studied in outline with special reference to the origin, development, and fundamental ideas of each.

Dr. Barton offers in each year the following free elective undergraduate courses in Oriental History, which taken together cover the great civilizations of Asia and North Africa:

History of the Near East.

Three hours a week throughout the year.

This course treats in broad outlines the history and civilization of the Classical Orient. The beginnings of the Hamito-Semitic race, and the influence of environment upon its primitive institutions are first studied. The separation of the races into the different nations is then traced, and the history of the principal Oriental nations, Egyptians, Babylonians, Assyrians, Phœnicians, Hebrews, Hittites, Sabæans, and Persians; of Alexander and his successors; of the Parthians, and the oriental empire of the Romans, is followed in outline. Special attention is paid to the history of the Hebrews, and to their unique religious contribution to the civilization of the world. The course concludes with a study of the Arabic caliphates, and of Mohammedan civilization. The lectures are illustrated by archæological specimens and by photographs. Either semester may be elected separately.

History of the Far East.

Two hours a week throughout the year.

This course treats in outline the history of China, India, and Japan from the earliest times to the present. It aims to acquaint the student with the origin, development, and principal features of the civilizations of those lands.

History.

The instruction in this department is under the direction of Dr. Howard Levi Gray, Professor of History, Dr. William Roy Smith, Professor of History, and Dr. Charles Wendell David, Associate Professor of European History.

GRADUATE COURSES.

Three distinct seminaries, two in Mediæval and Modern European history and one in American history, are offered to graduate students in history in addition to a course in Historical Bibliography and Criticism and the direction of private reading and original research. Students may offer either European History or American History as a major for the degree of Doctor of Philosophy. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Gray conducts in each year the following graduate seminary:

Seminary in Mediæval and Modern European History.

Three hours a week throughout the year.

In 1920-21 the seminary is devoted to the problems of contemporary Europe and relies upon recent historical literature. The genesis, the progress, and the results of the world war furnish the topics for study. Attention is given to the development of the industrial society of the second half of the nineteenth century, to the staging of the conflict by national interests and rivalries, to the adaptations required by the war, and to changes attendant upon reconstruction and influenced by the commanding position of labour in the social order of the day.

In 1921-22 the seminary will be concerned with the history of England during the Hundred Years' War. Diplomatic negotiations, innovations in military science, the new taxation necessitated, the hostility not infrequently shown to the government, the social changes associated with the Black Death and the Peasants' Revolt, the doctrines advocated by Wiclif, the rise of the woollen industry and of a native merchant class, are among the subjects to which consideration is given.

In 1922-23 aspects of Yorkist and Tudor England will be studied. Among these are the significance of the War of the Roses, the rise of a new nobility, the character of the absolutist government, the renunciation by the English Church of papal authority, the consequent dogmatic and social changes, the commercial rivalry and the conflict with Spain.

Dr. William Roy Smith conducts in each year the following graduate seminary:

Seminary in American History.

Two hours a week throughout the year.

In 1920-21 the subject of the seminary is slavery and the negro problem. After a preliminary survey of the history of slavery in the colonial period such topics as the slavery compromises of the constitution, the growth of slavery in the South, the abolition of the slave trade, the Missouri Compromise, the anti-Slavery movement, nullification, the Mexican War, the Wilmot Proviso, the compromise measures of 1850, the Kansas-Nebraska bill, the Dred Scott decision, the abolition of slavery, and the adoption of the thirteenth, fourteenth, and fifteenth amendments are discussed. Special attention is paid to the conflict between sectionalism and nationalism and the connection between slavery, territorial expansion, and the development of constitutional theories.

In 1921-22 the Revolution, the Confederation, and the Constitution will be the subjects of study. American history from 1776 to 1789 is discussed primarily from the local point of view as a step in the conflict between the seaboard aristocracy and the democracy of the frontier. The social and economic forces which led to the adoption of the Federal Constitution and the subsequent formation of national political parties are investigated.

In 1922-23 the seminary will deal with the Civil War and Reconstruction. Special stress is laid upon the social, economic, and political reorganization of the South, the North and the West and also of the nation as a whole during the period from 1861 to 1877.

All students offering this seminary for the degree of Doctor of Philosophy are required to offer in addition the course in Historical Bibliography and Criticism.

Dr. David conducts in each year the following graduate seminary:

Seminary in Mediæval and Modern European History.

Two hours a week throughout the year.

In 1920-21 the subject of the seminary is England during the twelfth and thirteenth centuries. Special attention is paid to institutional and cultural developments, and to English continental possessions and connections.

In 1921-22 the subject of the seminary will be the French Revolution. Topics are selected for study from various periods and phases of the Revolution with a view to illustrating different kinds of historical problems, gaining an acquaintance with the principal printed sources and secondary works, and extending the student's knowledge of the revolutionary movement as a whole. Attention is paid to social and economic conditions, to political institutions, and to the intellectual movement under the Old Régime, as being essential to an understanding of the Revolution itself; and in the period beginning with 1789 the economic and social aspects and consequences of the revolutionary movement are steadily borne in mind.

In 1922-23 the subject of the seminary will be England during the transitional period of the late eighteenth and early nineteenth centuries. The genesis and development of the parliamentary reform movement are traced from 1768 to the passage of the Reform Act of 1832. Special attention is devoted to the influence of the French Revolution on English opinion and to the effects of the long struggle with revolutionary France and with Napoleon upon English internal history. The Industrial Revolution, with the grave social and economic consequences which it involved, is also made a subject of special study.

Dr. David offers in each year the following graduate course:

Historical Bibliography and Criticism.

One hour a week throughout the year.

Historical bibliography is the subject of the course during the first semester. Special attention is paid to bibliographical guides; to libraries, archives and manuscript collections; to important sets of printed sources; to the development of historical studies since the Renaissance; and to the work and rank of leading historians of the nineteenth century. Historical analysis and synthesis are treated during the second semester. Special attention is paid to the external and internal criticism of documents; to the auxiliary sciences; to the arrangement and presentation of the results of historical research; and to the relation of history to science. The course consists of informal lectures and supplementary reading, with some assigned topics illustrative of the problems under discussion. This course must be elected by all students in history during their first year of graduate study.

Dr. Gray, Dr. William Roy Smith, and Dr. David, conduct in each year the historical journal club.

Historical Journal Club.

Two hours once a fortnight throughout the year.

The instructors in the department of history and the graduate students who are pursuing advanced courses in history meet once a fortnight to make reports upon assigned topics, review recent articles and books, and present the results of special investigations.

POST-MAJOR COURSES.

Dr. Gray offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

England under the Tudors.

Three hours a week throughout the year.

Attention will be given to the character of Tudor absolutism, parliamentary and local government, dynastic ambitions, foreign trade, the prosperity of the towns, and the yeomen, the progress of the Reformation, and the complications in foreign affairs arising from religious changes. The reading and reports will be based largely upon contemporary documents.

Dr. David offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

The French Revolution and Napoleon. *Three hours a week throughout the year.*

This course treats of the history of France and of Europe from 1789 to 1815, by means of lectures, assigned readings, and reports. The period is considered as an organic whole and the career of Napoleon is regarded as that of a child of the Revolution who in his later years abuses what has made him. The increasing mass of secondary material is appraised and some printed documentary material is used for reports and references.

Dr. William Roy Smith offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

American Constitutional History from 1783 to 1865.

Two hours a week throughout the year.

The lectures deal with the leading aspects of the political, constitutional, and economic history of the United States from the ratification of the constitution to the present time. The text-book used is MacDonald's *Select Documents of the History of the United States*, but frequent additional references are given to the leading secondary authorities. To a limited extent use will be made of such documents as are available in the library, and special topics will be assigned for discussion and report.

Dr. William Roy Smith offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

American Constitutional History to 1783.

Two hours a week throughout the year.

The text-books used in the course are MacDonald's *Select Charters of American History* and *Select Documents of the History of the United States*. The members of the class are also systematically referred, not only to the general authorities, but also to colonial charters and constitutions, the records of the colonial governments as far as they are available, the journals of Congress, and other documentary materials. This course was omitted in 1919-20.

ELECTIVE COURSE.

Dr. David offers in 1921-22 and again in 1923-24 the following free elective course, open to graduate students:

Civilization of the Ancient World.

Three hours a week throughout the year.

Special attention is paid to Greece and Rome; but extended consideration is also given to the subject of pre-history, to the early civilizations of western Asia, Egypt, and the Ægean region, and to the influence of environment, race, and culture upon human development. The evolution of civilization as a whole, from earliest times to the fourth century A. D., is presented in a single synthesis. A somewhat similar method has recently been adopted by Mr. H. G. Wells in his popular *Outline of History*.

Economics and Politics.

The instruction in this department is under the direction of Dr. Marion Parris Smith, Professor of Economics and Politics, Dr. Charles Ghequiere Fenwick, Professor of Political Science, and Miss Marjorie Lorne Franklin, Instructor in Economics and Politics.

GRADUATE COURSES.

Three seminars, one in economics and two in political science, are offered each year in addition to the direction of private reading and original research. Post-major courses amounting to five hours a week which may be elected by graduate students are given in each year. Students may offer either economics or politics as their major subject for the degree of Doctor of Philosophy. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Marion Parris Smith conducts in each year the following graduate seminary:

Economic Seminary.

Two hours a week throughout the year.

The object of the seminary is to train students in methods of research and to give them practice in using the sources of economic history and theory.

In 1920-21 Economic Theory and Economic History in the United States from 1790 to 1850 are studied.

In 1921-22 the Industrial Revolution and the Mechanical Revolution in Great Britain and in America in the eighteenth and early nineteenth centuries will be studied.

In 1922-23 the Tariff, Currency and Banking in the United States from 1790 to 1865 will be the subjects of the seminary.

In 1923-24 the Theories and Problems of Distribution in the modern industrial states are studied. Special attention is paid to wage problems, the limitation of profits and profit sharing, income and excess profits taxation, land reforms, and projects for controlling monopolies.

Dr. Fenwick conducts in each year the following graduate seminary:

Political Seminary.

Three hours a week throughout the year.

The methods of instruction in the seminary are designed to guide advanced students in special research work along the lines indicated by the titles of the courses. Some lectures are given but the main attention is devoted to the presentation and criticism of the results of studies made by the students themselves.

In 1920-21 the Constitutional Law of the United States is the subject of the seminary. The decisions of the Supreme Court of the United States form the basis of the work. Special stress is laid upon the relations between the federal and state governments, interstate commerce, and due process of law under the Fourteenth Amendment. Students are required to present brief reports upon assigned cases in the first semester and to prepare a longer report upon a group of cases in the second semester.

In 1921-22 Constitutional Questions involved in Modern Economic and Social Problems will be the subject of the seminary. The chief economic and social problems of the United States are studied from the point of view of the restrictions placed by the Constitution upon the legislative powers of Congress and of the several states dealing with those subjects. As an introduction the various theories relating to the proper functions of the state are discussed.

In 1922-23 Comparative Constitutional Government is the subject of the seminary. The object is to compare and contrast the several forms of constitutional government represented by the United States, Great Britain, France and Germany, together with a study of the new constitutional governments of Russia, Czecho-Slovakia, and China, if proper material be available. Among the questions raised are the location of sovereign power, the authority of the constitution, the restrictions placed by the constitution upon the governing bodies, and the protection afforded by the constitution to the rights of individuals and minorities.

Miss Franklin conducts in each year the following seminary:

Seminary in Municipal Government.

Three hours a week throughout the year.

This seminary deals with the structure and functions of modern municipal government. The legal relation of the city to the state, city charters, various types of city government including the commission and city-manager forms, are considered in the early part of the course. A study of modern municipal administration follows, including municipal finance and budgetary problems, city planning, housing, public health and sanitation, franchises and public utilities. The discussion of modern agencies for research in city government is supplemented by practical field work at the Philadelphia Bureau of Municipal Research.

Dr. Marion Parris Smith, Dr. Fenwick, and Miss Franklin conduct in each year the economics and politics journal club.

Economics and Politics Journal Club.

Two hours once a fortnight throughout the year

At the meetings recent books and articles are reviewed and the results of special investigations presented for discussion, comment, and criticism

POST-MAJOR COURSES.

Dr. Marion Parris Smith offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

American Economic and Social Problems. *Three hours a week throughout the year.*

The object of this course is to trace certain social movements in the United States from 1865 to the present time. Special studies are made of the changes in rural and urban population; the development of city life; the problems of country life; immigration, the race problem; problems of food distribution and marketing, cost of living, etc. Special topics are assigned to students for reports and attention is given to the use of original source material.

Dr. Marion Parris Smith offers in 1921-22 and again in 1923-24 the following post-major course open to graduate students:

The Economic Background of American Foreign Trade.

Three hours a week throughout the year.

This course is divided into three sections with a brief historical introduction. Part I is devoted to American trade with Europe; Part II, Pan-American trade; Part III, Oriental trade. The general object of the course is to study the economic factors involved in American foreign trade, its extent and the chief problems presented and the degree of American dependence on the markets of other countries. Each student presents during the year a number of short reports which are discussed in the class. The aim of this method is to familiarize the student with the general subject, to give them certain precise bibliographical knowledge, and to afford some training in the arrangement and presentation of economic material.

Dr. Fenwick offers in 1920-21 and again in 1921-22 the following post-major course, open to graduate students:

International Law.

Two hours a week throughout the year.

The object of this course is to present the rules of international law as a positive system with an historical background of custom and convention. Use is made of judicial decisions of British and American courts applying the principles of international law wherever such cases are in point, and an endeavour is made to determine the precise extent to which a given rule is legally or morally binding upon nations. In view of the importance of the question of international reorganization at the present time stress is laid upon the problems involved in a League of Nations.

Dr. Fenwick offers in 1922-23 the following post-major course, open to graduate students:

Constitutional Questions involved in Modern Social and Economic Problems.

Two hours a week throughout the year.

In this course the chief economic and social problems of the United States are studied from the points of view of the restrictions placed by the Constitution upon the legislative powers of Congress and of the several states when dealing with those subjects. Decisions of the federal and state courts form the basis of the course.

FREE ELECTIVE COURSE.

Dr. Fenwick offers in each year the following free elective course, open to graduate students:

Elements of Law.

One hour a week throughout the year.

The object of the course is to familiarize the student with the principles and technical terms of those branches of private law with which the ordinary citizen is brought into contact. The subjects covered include Persons and Domestic Relations, Contracts, Torts, Real and Personal Property, and the chief forms of Procedure. The lectures are supplemented by a study and discussion of court cases bearing on the subject. The course is open only to students who have pursued a course in economics and politics or in history for at least five hours a week for a year.

Social Economy and Social Research.

The Carola Woerishoffer Graduate Department of Social Economy and Social Research.

This department was opened in the autumn of 1915 and is known as the Carola Woerishoffer Graduate Department of Social Economy and Social Research in order that the name of Carola Woerishoffer may be associated in a fitting and lasting way with Bryn Mawr College which she so generously endowed. The department affords women an opportunity to obtain advanced scientific training in social and industrial advancement to which Carola Woerishoffer devoted her life.

The instruction in this department is under the direction of Dr. Susan Myra Kingsbury,* Carola Woerishoffer Professor of Social Economy and Director of the Carola Woerishoffer Department of Social Economy and Social Research; Dr. Neva Deardorff, Non-resident Lecturer and Associate Professor (elect) in Social Economy; Miss Henrietta Additon, Non-resident Lecturer in Social Economy; Mrs. Eva Whiting White, Non-resident Lecturer in Social Economy; Miss Gladys Boone, Instructor in Social Economy; Dr. Alice Hamilton, Special Lecturer on Industrial Poisons, a Special Lecturer on Social Hygiene; Miss Gwendolyn Hughes, Research Secretary of the Department of Social Economy and Social Research; with the co-operation of the following members of the closely allied departments of Economics and Politics, Psychology, Education, and Philosophy: Dr. Marion Parris Smith, Professor of Economics; Dr. Charles Ghequiere Fenwick, Professor of Political Science; Miss Marjorie

* Granted leave of absence for the year 1921-22. The courses announced by Professor Kingsbury will be given by Dr. Neva Deardorff and by a substitute whose appointment will be announced later.

Lorne Franklin, Instructor in Economics and Politics; Dr. Theodore de Leo de Laguna,* Professor of Philosophy; Dr. James H. Leuba,* Professor of Psychology; Dr. Clarence Errol Ferree, Professor of Experimental Psychology; Dr. Gertrude Rand, Associate in Experimental and Applied Psychology; Dr. Matilde Castro,* Professor of Education; Dr. Ada Hart Arlitt, Associate in Educational Psychology; Miss Georgiana Goddard King, Professor of the History of Art; Dr. Howard James Savage, Associate Professor of Rhetoric and Director of the work in English Composition; Dr. David Hilt Tennent, Professor of Biology, and Mr. Samuel Arthur King, Non-resident Lecturer in English Diction. The seminars and courses given by these instructors and enumerated below are specially adapted for students of Social Economy and Social Research.

Pre-requisites

The courses in Social Economy and Social Research are intended for graduate students who may present a diploma from some college of acknowledged standing. No undergraduate students are admitted although graduate students in the department may elect, subject to the approval of the Director of the Department, undergraduate courses in other subjects.

Students of this department should offer for admission to their graduate work a preliminary course in economics, and more advanced courses equivalent to the Bryn Mawr College major course in economics, politics, sociology, psychology, philosophy, or history, and also preliminary work in psychology†, sociology or biology, or should follow such courses while taking the work of the department.

The courses are planned for one, two, and three years, on the principle that about two-thirds of the student's time shall be given to the study of theory and the remaining one-third to practical work in her chosen field. Students entering the department are expected to pursue the work throughout one year at least. After one year of work in this department one-half year may be given to a practicum in residence in a social service institution, in connection with a social welfare or

*Granted leave of absence for the year 1921-22. The courses announced by these professors will be given by substitutes whose appointments will be announced later.

† The importance of psychology may make it necessary to advise students without adequate preparation in this subject to take certain psychological courses as a part of their required work. In some fields of work laboratory courses should be included in the preparation.

community organization, in a federal or state department of labour and industry, in a federal or state employment office, or in a manufacturing or mercantile establishment in Philadelphia, New York, New England, or elsewhere, during which time the practical work and special reading and research will be supervised by the instructor in charge of the practicum and the head of the institution, department, or business firm. Students specializing in industrial relations and personnel administration are required to devote two months to work in an industrial or mercantile establishment during the summer following this work at the college. This work is carefully supervised by an instructor in the Department. Opportunities for summer practice in other fields are also arranged.

The fields from which a subject for the practicum may be chosen are *Practicum.* as wide as are the organized activities for social welfare. Advantage has been taken by the department of the very generous interest and co-operation of the Philadelphia social agencies, federal and state departments and manufacturers and merchants to secure for its students definite affiliation with practical work in the fields chosen by them. This has led in the years 1915-21 to an arrangement for co-operative work with the College Settlement, the Municipal Court, the Society for Organizing Charity, the Women's Trade Union League, the Social Service Department of the University of Pennsylvania Hospital, the Bryn Mawr Community Center, the Massachusetts Minimum Wage Commission, the Federal Children's Bureau, the Children's Aid Society, the Consumers' League, the Seybert Institution, the White-Williams Foundation, The American Red Cross, the U. S. Employment Service, and the State Department of Labour and Industry.

The following business firms are a few of those who have afforded opportunity for practical work in industrial supervision and employment management.

American Pulley Company, Atlantic Refining Company, Barrett Company, Bell Telephone Company, Edward G. Budd Manufacturing Company, A. M. Collins Company, Curtis Publishing Company, Henry Disston & Sons Company, Eddystone Munitions Works, General Electric Company, American International Shipbuilding Corporation at Hog Island, Leeds Northrup Company, Link Belt Company, Midvale Steel Corporation, Miller Lock Company, Notaseme Hosiery Company, Fayette R. Plumb Company, John B. Stetson Company, Sutro Hosiery Company, John Wanamaker.

Graduates of Bryn Mawr College or of other colleges that have completed the required preliminary work in Economics and Psychology and are able to study for one year only will *Certificates and Degrees.*

receive Certificates in Social Economy stating the courses they have completed satisfactorily.

Graduate students that have completed the required preliminary work who are able to study for two years will receive Certificates in Social Economy stating the courses they have completed satisfactorily.

The degrees of Master of Arts and of Doctor of Philosophy in Social Economy and Social Research are open to graduates of all colleges of high standing under the conditions prescribed for these degrees* in Bryn Mawr College.

Six seminars, three including practicums, and five graduate courses, are given each year in the Carola Woerishoffer Graduate Department in addition to seminars and courses in economics, politics, education, philosophy, psychology, literature, and art. Direction of investigation and research in special fields, and supervision of the practicum in social and industrial welfare accompanies the seminars and courses. The seminars and courses announced by the department are given in rotation so that different courses may be taken in consecutive years. The selection of courses depends upon the field of Social Economy which the student may choose. A seminary in Social Economy or a seminary in Social Theory, and, unless previously taken, undergraduate courses in Elements of Statistics and in Articulation and Voice Production are required of all students of the department.

GRADUATE COURSES.

The following graduate seminars and courses may be elected subject to the approval of the Director of the Department by students working for the first and second year certificates as well as by candidates for the degree of Master of Arts or of Doctor of Philosophy in Social Economy and Social Research, or may be offered as the associated or independent minor with the approval of the Director of the Department when the major is taken in certain other departments according to the regulations of the Academic Council.

Dr. Kingsbury offers in 1920-21 and again in 1922-23, and Dr. Deardorff offers in 1921-22 the following graduate seminary:
Seminary in Social and Industrial Research.

Three hours a week throughout the year.

* For requirements for the degrees of Master of Arts and of Doctor of Philosophy, see pages 34 to 38.

Research in Social Economy involves two distinct types of studies. First, that which uses manuscripts or printed documents as sources of information and second, that which secures data concerning human relations and social conditions from individuals, groups, organizations, or institutions. Both phases of social research necessitate an ability to discover cause and effect, to see the relations and interpret the interaction of social forces, to recognize and evaluate the factors conditioning or controlling social situations, and to establish facts concerning social phenomena.

Consequently, training in the acquisition, arrangement, analysis, and interpretation of data is essential for students undertaking either phase of social research. As other seminars in the Department and allied departments deal primarily with the first type of studies, this seminary is devoted exclusively to the second type. A subject is selected and arrangements made which will require students to secure social data by work in the field. The material is then organized, analyzed, and interpreted by the members of the seminary. In this way, training is given in filling out schedules, classifying data, drawing up tables, analyzing results, and interpreting material as a whole. The group of students may cooperate to produce a study which it is hoped will prove a contribution to our knowledge of social or industrial conditions.

In 1920-21, the seminary concluded a survey of the community of Bryn Mawr and initiated an investigation of industrial conditions affecting women.

In 1921-22,* the seminary will be selected from the following aspects of Social and Industrial Problems: (1) social relations, (2) vocational opportunities and demands, (3) standards of living, including income and wages, (4) the relation of health and industry, (5) industrial relations of women and minors.

As the chief subjects of investigation will vary from year to year, as noted above it will be possible for students to follow the work of the seminary for two consecutive years.

Dr. Deardorff offers in 1920-21 and again in 1922-23 the following graduate seminary:

Seminary in Races and Peoples.

Two hours a week throughout the year.

A study is made of the definitions of race, of theories regarding the origin and evolution of races, and of the sociological characterization of peoples. This is followed by studies in special problems of immigration and assimilation in the United States.

Dr. Deardorff offers in 1921-22 and again in 1923-24 the following graduate seminary:

Seminary in the Family as a Social Institution.

Two hours a week throughout the year.

A study is made of theories regarding the origin and evolution of the family as a social institution; such as the patriarchal theory, the theory of the horde and mother-right, and the theory of the monogamous or pairing family. In connection with these theories are considered the questions of original communism, polygamy, polyandry, monogamy, exogamy, endogamy, wife-capture, wife-purchase, marriage contracts, and divorce, and finally modern theories as to the future of the family and its relation to the other social institutions.

Miss Boone offers in each year the following graduate seminars:

Seminary in Labor Organization.

Two hours a week throughout the year.

A knowledge of the general concepts of labor economy and of the outline of Labor Organization history is assumed. The seminary begins with a survey of the history of Labor Organization in the United States showing the parallelism between the growth of

* See footnote, page 85.

Labor Organizations and of Industrial Organization and Employers' Associations and also showing the influence of European labor movements and successive waves of immigration. It then discusses present union groups in America, types and principles of organization and union policies and practices. These are linked up with the theories of the Labor Movement and it is shown that both theory and practice are conditioned by the law relating to labor.

The development of a better understanding between employer and employee is traced through the early phases of collective bargaining to modern schemes such as the National Industrial Councils in Great Britain, the national agreements in the clothing and printing trades in the United States and experiments in cooperative production.

Seminary in Research in Labor Problems.

Two hours a week throughout the year.

This seminary must be preceded by the seminary in Labor Organization or its equivalent. The general field of research is that covered by the Seminary in Labor Organization and some phases of the course in Industrial Supervision and Personnel Administration. The special subjects treated are determined by the urgency of current problems or the particular interests of the students. Material collected by the students is discussed in conference and presented in reports.

Dr. Castro offers in 1920-21 the following graduate seminary:

Seminary in Social Education.

Two hours a week during the second semester.

The Essentials of Educational Theory and Practice for Community Workers are studied in this seminary. The subjects dealt with serve as an introduction to the educational principles involved in the intelligent direction of such activities as community centres, settlement classes, clubs, etc. Among the subjects studied will be the characteristic mental and physical development of childhood, adolescence, youth, and maturity. This study will be used as a basis for the selection of the educational materials and methods appropriate to the needs and capacities of different groups of varying ages and differing educational opportunities.

The following graduate seminary will be offered in each year by an instructor whose appointment will be announced later:

Seminary in Industrial Organization.

Two hours a week throughout the year.

This seminary undertakes a study of business organization as an element in industrial society. The aspects of the industrial combination in its effects upon efficiency and wages are especially emphasized. The purpose is also to present the standard practice in industrial organizations and management. It gives a conception of the entire plant structure in order to suggest possibilities of cooperation between departments, and to insure an understanding of their difficulties. It will concern itself with the location and equipment of a plant and its administration, including functions of the officials and departments and their inter-relations in all stages from purchasing and employing to marketing.

Dr. Leuba* offers in each year the following graduate seminary:

Psychological Seminary.

Two hours a week throughout the year.

As the foundation of the work of the seminary one or two of the following subjects will be chosen each year: instinct, feeling, and emotion; the psychology of religion and of ethics; social psychology; abnormal psychology (mental disorders, the Freudian psychology, arrested mental development, and its social and educational implications, etc.); animal behaviour.

* See footnote, page 85.

Dr. Leuba* offers in each year the following graduate seminary:

Seminary in Social Psychology.

Two hours a week during the first semester.

In 1920-21 and again in 1922-23, the principles of social psychology and their applications to social problems are the subject of the seminary.

In 1921-22 and again in 1923-24, Temperament and Character, their instinctive and emotional foundation, will be the subject of the seminary.

This seminary is open to students who have pursued an elementary course in psychology. It may be elected separately or may be combined with the seminary in Social and Political Philosophy given in the second semester to count as a seminary in the Department of Social Economy and Social Research.

Dr. Theodore de Laguna* offers in each year the following graduate seminary:

Seminary in Social and Political Philosophy.

Two hours a week during the second semester.

The topics chosen for discussion will vary from year to year. Among them will be such subjects as: the general nature of law; sovereignty and allegiance; the conception of personal liberty; property; punishment; marriage and the family; moral education. This seminary is open to students who have pursued an elementary course in philosophy. It may be elected separately or may be combined with the seminary in Social Psychology given in the first semester to count as a seminary in the Department of Social Economy and Social Research.

Dr. Kingsbury* and Mrs. White offer in each year the following graduate seminary:

Seminary in Social Economy Applied to Community Organization and Administration.

Two hours a week throughout the year.

This seminary includes the Practicum in Community Organization and Administration. It combines practical work in social and community education with reports and discussions. It must be accompanied by the course in Community Organization and must be preceded or accompanied by the seminary in Social Education—Essentials of Educational Theory and Practice for Social Workers—or its equivalent. In addition to reports and conferences, seven or twelve hours a week, according to election, are devoted to active work in a social center or settlement by which the student gains vital illustration of the principles and organization of community work.

The practice work is so arranged as to give to the student training in the following activities:

(1) Direction and teaching of clubs and classes as observers, visitors, helpers and assistants.

(2) Regular daily management as assistants and later as directors.

(3) General administrative assistance in office work, including record-keeping, in library work, in activities to secure publicity, in preparation of newspaper articles, reports, posters, exhibits, parades, dramatics, plays, festivals, demonstrations, concerts, and lectures, in public speaking and writing, and in conducting financial campaigns and special studies.

(4) Teaching in night schools of classes in civics and elementary subjects, and conducting games, dramatics, gymnastics, playgrounds and kindergarten activities.

(5) Co-operation with civic movements, community campaigns and emergency activities, school programs and publicity.

Training in the theory and supervision of practice in Physical Education may accompany this seminary.

Two or three months of non-resident practice in social centers and settlements, playgrounds or fresh-air camps may be arranged for the summer following the resident work at Bryn Mawr.

* See footnote, page 85.

The fields from which the subject for the practicum may be chosen are community, civic and social centers, settlements, playgrounds, and health and recreation centers, and have included the Bryn Mawr Community Center, The Philadelphia College Settlement and work in smaller neighboring communities.

Dr. Deardorff and Miss Additon offer in each year the following graduate seminary:

Seminary in Social Economy Applied to Social Relief and Social Guardianship.

Two hours a week throughout the year.

This seminary includes the Practicum in Social Relief and Social Guardianship. It must be accompanied by the course in Social Treatment of Dependents, Delinquents, and Defectives. Field work is carried on 7 to 12 hours per week according to election with such agencies as the following: The Philadelphia Society for Organizing Charities; The Home Service Department of the Red Cross; The Children's Bureau, an agency which investigates all complaints concerning children; The Children's Aid Society, a child-placing agency; The White-Williams Foundation; Hospital Social Service Departments and the various departments of the Municipal Court, such as the Probation, Statistical, Employment Agency and Psychological Departments.

The field work with these agencies is under the supervision of Dr. Deardorff and Miss Additon and of the director of the particular agency or department. In addition to the regular practice work, students are taken on observation trips to courts, almshouses, orphanages, asylums, institutions for the feeble-minded, the blind, the crippled, hospitals, etc.

Miss Boone offers in each year the following graduate seminary:

Seminary in Social Economy Applied to Industrial Supervision and Personnel Administration.

Two hours a week throughout the year.

This seminary includes a practicum in Industrial Supervision and Personnel Administration, and consists of 7 or 12 hours field work per week in industrial experience in or near Philadelphia and two months of non-resident industrial experience. During the period of residence at Bryn Mawr, the field work is devoted to assisting in an employment office, while group observation trips are regularly arranged. In the non-resident period the student, in addition to experience in the employment office, by being transferred from process to process, is enabled by plant supervision to see not only the conditions of work but the adjustment of employment problems to the other factors of industry. Experience may also be afforded in the state employment service and in factory inspection. In connection with this seminary each student must take the course in Industrial Supervision and Personnel Administration, and must precede or accompany it by the Seminary in Labor Organization or the equivalent.

Dr. Deardorff and Miss Additon offer in each year the following graduate courses:

Social Treatment of Dependents, Delinquents and Defectives.

Two hours a week throughout the year.

This course aims toward the preparation of the student to handle the individual case problems arising out of dependency, defect and delinquency. This involves a study of the methods of investigation of the individual case, the objectives and methods of treatment, the agencies, both public and private, for giving expert services, special forms of care and assistance and legal custody. Studies are made of the adaptation of fundamental principles of investigation and treatment to particular forms of social maladjustment and physical and mental defect. The student is acquainted with the theories of social responsibility with reference to these classes, of preventive measures already in effect, and of opportunities to extend preventive measures.

The following courses are open to graduate students by special arrangement:

Criminal Law.

Two hours a week throughout the year.

By special arrangement with the Law School of the University of Pennsylvania students in this department may pursue the course in Criminal Law offered by Dean Mikell at the Law School, Thirty-fourth and Spruce Streets, Philadelphia.

This course may accompany the course in Social Treatment of Delinquents and Defectives (Criminology).

Criminal Procedure.

Two hours a week throughout the year.

By special arrangement with the Law School of the University of Pennsylvania students in this department may pursue the course in Criminal Procedure offered by Dean Mikell at the Law School, Thirty-fourth and Spruce Streets, Philadelphia.

This course must be preceded by the course in Criminal Law.

Miss Boone offers in each year the following graduate courses:

Industrial Supervision and Personnel Administration.

Two hours a week throughout the year.

The course deals with the problems and technique of Personnel Administration. It considers the organization and functions of a personnel department and the relation of that department to the industrial or commercial organization. The practical problems of building up and maintaining a stable working force are discussed and in this connection emphasis is laid on the analysis of labor turnover and on the training and supervision of employees. The course also presents the possibilities of cooperation between the personnel department and public employment services, the schools and recreational and educational agencies supported by the community at large.

Any outline of this course must be somewhat tentative as the experience drawn upon in its presentation is constantly changing and increasing and much of the material is obtained from current publications. The following survey suggests the scope of the course:

- I. Personnel Administration: function; scope; fundamental problems.
- II. Employment Management: selection of employees:—sources of labor supply; job analysis and specifications; applications and interviews; physical examinations; tests.
- III. Training and Instruction: for foreman; for minor executive; for new employees; for promotion.
- IV. Maintenance of Working Force:
 - (a) Conditions of Employment: wages; hours of labor; health and safety; scientific management.
 - (b) Relation of Management to Workers: follow-up; promotions and transfers; absenteeism and tardiness; discipline and complaints; service work; employee representation.
- V. Organization of a Personnel Department: plan of organization; survey of plant; office equipment; records and files.
- VI. Relation to Other Executives: production manager; foremen; industrial engineer; safety engineer; sanitary expert; fatigue expert; sales manager.
- VII. Relations with Community: schools; industrial education; organizations; government boards; movements for improved industrial housing and proper transportation for personal and social development and recreation and for social care and aid; industrial commissions.

The course must be preceded or accompanied by the seminary in Labor Organization or Industrial Organization or the equivalent, and by the seminary in Social Economy, including the Practicum in Industrial Supervision and Personnel Administration.

Advanced Statistics.

Two hours a week throughout the year.

This course attempts to study intensively the subjects of correlation and causation, or the functional relationships between series of facts. The main considerations of the

course are the method of least squares, the theory of linear correlation, skew distribution, partial correlation, and the theory of contingency.

The course must be preceded by the course in Elements of Statistics or its equivalent, and a foundation in mathematics including the Calculus is desirable to facilitate ease in comprehension.

If accompanied by the Special Research in Statistics the course becomes equivalent to a seminary.

Special Research in Statistics.

Seven hours of laboratory work a week throughout the year.

This course including laboratory analysis and reports is offered in each year in connection with the course in Advanced Statistics and the two courses taken together are equivalent to a seminary.

Mrs. White offers in each year the following graduate course:

Community Organization.

Two hours a week throughout the year.

The theory upon which community work is based and the technique used in its conduct are presented in this course to accompany the field practice which is carried on under the Seminary in Social Economy Applied to Community Organization. Experience of the student in the field is constantly used to exemplify the principles formulated.

In the first semester the following subjects are covered:

(1) A study of the development of the community, of its physical aspects and its political and social organization.

(2) A study of the history of the development of the community, of its physical aspects and its political and social organization.

(3) Analysis of Primary and Universal Groups including the relation of the individual to these groups.

(4) Survey of the Field of Social Work. The place of Community Organization in the progress of society.

(5) Major industrial, social, and political problems and the application of the findings of sociology, economics, psychology, political science to the solving of those problems.

(6) Principles of Case Work to be used in Community Organization.

In the second semester the work includes:

(1) First steps in organizing a community including methods of approach to strategic groups and to strategic individuals. Formation of a representative governing body. The community survey. Method of deciding on a program of action.

(2) Questions of management. Committee organization. Staff organization. Budget making and accounting. Records. Office systems. Selection, training, and supervision of volunteers. The community building; its equipment and operation.

(3) Community finance and Publicity. The Community Chest. The growth of local federations of social and civic agencies.

(4) Group Organization. The club, class or society. Age groupings. Special interest groups. Methods of gauging the personal and social needs of the individual through group action. Educational, civic, social, recreational programs for groups.

(5) Units of Community Organization: city or town, neighborhood, block.

(6) Community Cooperation with city or town governments, with public health agencies, with schools, with social and philanthropic agencies, with civic bodies and with churches.

(7) Public and private forms of Community Organization. Use of schoolbuildings and of libraries as community centers. The development of public recreation systems, playgrounds and parks. Extension work of national departments. The program of the Red Cross, of Community Service, and the Social Settlement. The local improvement society and the Community Council.

The course also takes up the question of legislative procedure, town planning, housing, the cooperative movement, and citizenship programs.

Miss King offers in each year the following graduate course:

Community Art.

Two hours a week throughout the year.

A special course will be given in Community Art, to show the methods of developing group expression in music, dramatics, pageantry, dancing, literary expression, architecture, graphic and plastic arts. This course prepares the student of artistic ability to use her best gifts in bringing out the artistic expression of the community. The purposes of educational dramatics, pageant and festivals forms, qualifications of directors, principles of casting, costuming and stage direction are included in the division on community dramatics. In a similar way the movement for community music, civic architecture, writing, painting or sculpture which are spontaneous expressions of the people are included in other divisions of the course.

Dr. Savage offers in each year the following graduate course:

Technical and Advanced Criticism. *Two hours a week during the first semester.*

In this course attention will be given to bibliography, the tabulating of critical data, the planning and writing of papers, reports, and dissertations, critical usage, and other matters. Materials collected for other courses in research are available for use in this work.

Mr. King offers in each year the following course in English Diction for graduate students:

General Course in Articulation and Voice Production.

One half hour a week throughout the year.

The object of this course is to train speakers in accurate and distinct articulation and to eliminate the faults of bad production. Speech is resolved into its phonetic elements which are made the basis of practical exercises so arranged as to be progressive in their difficulties.

Dr. Parker offers in each year the following course, open to students working in the department:

Social Hygiene.

One hour a week during the first semester.

Dr. Kingsbury, Dr. Deardorff and Miss Boone conduct in each year the Social Economy Journal Club.

Social Economy Journal Club. *Two hours once a fortnight throughout the year.*

Current books and articles are reviewed, recent reports, surveys and investigations are criticized, and the results of important research are presented for discussion.

Dr. Marion Parris Smith offers in each year the following graduate seminary:

Economic Seminary.

Two hours a week throughout the year.

In 1920-21 the Theories and Problems of Distribution and the agencies in modern social life that effect the distribution of wealth will be studied. Special attention will be paid to wage problems, profit sharing, various plans for controlling large scale production, land reforms, and income and excess profits taxation.

In 1921-22 the Industrial Revolution and the Mechanical Revolution in Great Britain and in America in the eighteenth and early nineteenth centuries will be studied.

In 1922-23 the tariff, currency and banking in the United States from 1790 to 1865 will be the subjects of the seminary.

Dr. Fenwick offers in each year the following graduate seminary:

Political Seminary.

Three hours a week throughout the year.

In 1920-21 Constitutional Law of the United States is the subject of the seminary. The decisions of the Supreme Court of the United States will form the basis of the work. Special stress is laid upon the relations between the federal and state governments, interstate commerce, and due process of law under the Fourteenth Amendment. Students are required to present brief reports upon assigned cases in the first semester and to prepare a longer report upon a group of cases in the second semester.

In 1921-22 Constitutional questions involved in modern economic and social problems are the subject of the seminary. The chief economic and social problems of the United States are studied from the point of view of the restrictions placed by the Constitution on the legislative powers of Congress and of the several states in dealing with those subjects. As an introduction the various theories relating to the proper functions of the State are discussed.

In 1922-23 Comparative Constitutional Government will be the subject of the seminary. The object will be to compare and contrast the several forms of constitutional government represented by the United States, Great Britain, France and Germany, together with a study of the new constitutional governments of Russia, Czecho-Slovakia, and China, if proper material be available. Among the questions raised will be the location of sovereign power, the authority of the constitution, the restrictions placed by the constitution upon the governing bodies, and the protection afforded by the constitution to the rights of individuals and minorities.

Miss Franklin conducts in each year the following seminary:

Seminary in Municipal Government. *Three hours a week throughout the year.*

This seminary deals with the structure and functions of modern municipal government. The legal relation of the city to the state, city charters, various types of city government, including the commission and city manager forms, are considered in the early part of the course. A study of modern municipal administration follows including municipal finance and budgetary problems, city planning, housing, public health and sanitation, franchises and public utilities. The discussion of modern agencies for research in city government is supplemented by practical field work at the Philadelphia Bureau of Municipal Research.

Dr. Castro* offers in each year the following graduate seminaries:

Seminary in Educational Methods and Measurements.

Two hours a week throughout the year.

The seminary takes up the principles of educational methods and teaching technique. The latter part of the work deals with the theory and practice of educational measurements. The special subjects considered vary from year to year.

Dr. Arlitt offers in each year the following graduate seminary:

Seminary in Intelligence Tests.

Two hours a week throughout the year.

Laboratory Work in Intelligence Tests.

Four hours a week throughout the year.

The work of the seminary is devoted to a critical survey of the field of mental tests. The laboratory work includes training in the use of tests followed by the practical application of them in schools.

Dr. Rand offers in each year the following graduate seminary:

Seminary in Applied Psychology.

Two hours a week throughout the year.

Laboratory Work.

Four hours a week throughout the year.

This course combines seminary, laboratory drill and research features, and covers the psychological aspects of mental testing with special application to problems of vocational guidance and to the testing of normal adults, adult and juvenile delinquents and defectives.

* See footnote, page 85.

In the seminary work, the requirements of mental tests, their standardization and statistical treatment are considered. The laboratory drill work consists of training in the application of general intelligence and diagnostic tests to normal children and adults. This furnishes a standard of the normal reaction to the tests as well as practice in giving the tests. Later the work will be with delinquents and defectives. The research work will be done in connection with Vocational Guidance Bureaus. Two problems will be considered here: (a) the devising and standardizing of specific tests for diagnosing ability for different vocations; and (b) the determination of the average level of intelligence needed to meet the demands of different vocations. The course is open only to graduate students who have had training in experimental psychology.

Special Laboratory Problems in Applied Psychology.

Four hours a week throughout the year.

This course is offered in connection with the course in Applied Psychology to students who wish to pursue more advanced work.

The following advanced undergraduate courses are offered to students in the department:

Dr. Kingsbury offers in each year the following courses, open to graduate students:

Applied Sociology.

Two hours a week throughout the year.

The first semester's work includes a brief survey of populations, especially of the United States, and a study of the racial, national, economic and social factors which determine standards of living. The course then considers the forces which contribute to the formation of society, the processes through which society has evolved and the final product in social institutions. This discussion having provided a concept of the nature of society affords a point of departure from which to consider social conditions and organized efforts for social betterment. In the second semester the course includes a survey of the origin, growth, and present methods of the most important social service organizations in order to acquaint the student with the fields of activity in which social work is being carried on: (1) social education, through settlements, civic centers or other neighborhood organizations; (2) improvement of industrial conditions, through associations for labor legislation, labor organizations, or consumers' efforts; (3) child welfare, through societies for care and protection of children; (4) family care, through organizations for the reduction and prevention of poverty; (5) social guardianship, through the probation work in the juvenile courts or corrective institutions.

This course is open to students who have attended the course in Minor Economics.

Record Keeping and Social Investigation.

One hour a week throughout the year.

The object of the course is to acquaint the student with the principles and methods of record keeping and filing which are applicable to municipal, state, and federal offices, to business organizations, and to social organizations and investigation, and with the methods of securing, analyzing, interpreting and presenting social data. The best systems in use will be analyzed and studied. Formulation of the various types of schedules, tabulation of information secured, and the framing of tables are among the subjects considered. The course concludes with a critical study of the methods used in social economic investigations, of sources of social statistical information, and of reports by federal and state departments and by private organizations.

Miss Boone offers in each year the following free elective course, open to graduate students:

Elements of Statistics.

One hour a week throughout the year.

This course deals with the elementary principles of statistics and their application. Among the topics are the array, frequency distributions, averages, measures of variation, probability and theory of errors, theory of sampling, index numbers, logarithmic curves, graphic methods, comparisons, and the elements of linear correlation.

The course is recommended to students of social economy and of economics. No knowledge of mathematics beyond the requirements for matriculation is presupposed.

Dr. Marion Parris Smith offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

American Economic and Social Problems.

Two hours a week throughout the year.

The object of this course is to trace certain social movements in the United States from 1865 to the present time. Special studies are made of the changes in rural and urban population; immigration, the race problem; the development of city life; the problems of country life; problems of food distribution and marketing, cost of living, etc. Special topics are assigned to students for reports and attention is given to the use of original source material.

Dr. Marion Parris Smith offers in each year the following major course, open to graduate students:

History of Economic Thought and Recent Economic Problems.

Five hours a week during the second semester.

The course is divided into two parts: Part I aims to give students an historical introduction as a basis for a critical study of modern economic problems. The students read in connection with this section parts of Adam Smith's *Wealth of Nation*; Ricardo's *Principles of Political Economy and Taxation*; Malthus's *Principles of Population*; and selections from the writings of John Stuart Mill, Jevons, Wicksteed, Boehm-Bawerk, and Pantaleoni.

In Part II certain modern economic problems are considered in some detail: distribution under socialism, co-operation, profit sharing, the minimum wage, the eight-hour day, tax reforms, price fixing, etc. Numerous short papers in connection with the reading, and one long report on some specially assigned subject are required.

Dr. Fenwick offers in each year the following major course, open to graduate students:

Present Political Problems.

Five hours a week during the first semester.

The object of this course is to present the chief political problems that have arisen in recent years. The study of practical problems is preceded by a study of theories relating to the origin and nature of the state, its end or object, and the proper sphere of state activities, under which last heading the various theories of individualism, liberalism, and socialism will be studied. Modern reforms in federal, state, and city government are next studied, and particular stress is laid upon the extension of federal power in the United States and the relation between the Fourteenth Amendment and modern social and economic legislation adopted in the exercise of the police powers of the several states.

Dr. Fenwick offers in each year the following free elective course, open to graduate students:

Elements of Law.

One hour a week throughout the year.

The object of the course is to familiarize the student with the principles and technical terms of those branches of private law with which the ordinary citizen is brought into contact. The subjects covered include Persons and Domestic Relations, Contracts, Torts, Real and Personal Property, and the chief forms of Procedure. The lectures are supplemented by a study and discussion of judicial decisions bearing on the subject.

Dr. Rand offers in each year the following major course, open to graduate students:

Applied Psychology.

Five hours a week during the second semester.

The specific applications of psychology form the subject matter of this course. An important feature is the application to the work of the clinic. Demonstrations are made of mental equipment and individual practice is given in mental testing. The applications of psychology to law, medicine, vocational guidance, advertising, etc., are briefly considered. Four hours a week of laboratory work is required from students taking the course. A knowledge of psychology equivalent to that obtained in the minor experimental course is presupposed.

Dr. Ferree and Dr. Rand offer in each year the following minor course:

Experimental Psychology.

Five hours a week during the first semester.

Laboratory Work.

Four hours a week during the first semester.

(Open only to those students who have taken the required course in psychology or its equivalent.)

The lectures constitute an abbreviated course in systematic psychology in which the historical, critical, and theoretical features of the subjects covered are discussed and the experimental features demonstrated. Especial stress is laid on the comparative study of method. The laboratory work consists of individual practice in selected topics.

Dr. T. de Laguna* offers in each year the following minor course, open to graduate students:

Elementary Ethics.

Five hours a week during the second semester.

The course begins with a survey of the development of typical moral standards in the course of human progress from primitive to modern conditions. This is followed by a critical study of the theory of moral values, with especial reference to the phenomena of moral evolution. The concluding weeks are devoted to an introduction to the more general problems of Social Philosophy in their bearing upon the ideals of English and American liberalism.

Dr. Leuba* offers in each year the following major course, open to graduate students:

Social Psychology: The Psychology of Group Life and the Origin and the Nature of Magic, Religion, Ethics, Science and Art.

Five hours a week during the first semester.

Psychology has so far been concerned almost exclusively with individuals, human or animal, normal or abnormal. But a community, a crowd, a clique, an industrial trust, do not behave as the individuals composing them would behave if they acted independently. For this reason the study of the laws of social interrelation and of social action has become a separate branch of psychology.

Dr. Castro* gives in each year the following undergraduate course, open to graduate students:

* See footnote, page 85.

Education.

Two hours a week throughout the year.

The course interprets modern educational problems from the standpoint of their social setting; develops the psychological principles underlying the technique of teaching and demonstrates their application; sketches the mental, moral, and physical development of children from infancy through adolescence, and discusses the treatment of children individually and in groups in school and extra-school activities.

It is conducted as a general survey course covering the subject-matter indicated, or various topics are stressed and studied more intensively according as the interests of the class vary from teaching to social work or to a more general interest in educational problems.

Dr. Arlitt offers in each year the following undergraduate course, open to graduate students:

Experimental Educational Psychology. *Three hours a week throughout the year.*

Laboratory Work.

Two hours a week throughout the year.

In the first semester a study is made of sensori-motor learning, perceptual learning, and learning of the problem-solving type. Particular emphasis is laid on the conditions and methods of efficient study and on the training of memory.

In the second semester the course takes up the study of school subjects from the point of view of laboratory experimentation and a survey of the field of group and individual tests and educational scales and measurements.

Dr. Savage offers in 1921-22 the following free elective course:

The Technique of the Drama.

Two hours a week throughout the year.

This course is open only to those students who can assure the instructor that they can pursue the work with profit. It deals with the making of scenarios, adaptation, and the writing of original longer and shorter plays; and with the observation of dramatic technique in plays read and seen.

Dr. Tennent offers in each year the following free elective course, open to graduate students:

Theoretical Biology.

One hour a week throughout the year.

This is an historical course dealing with the development of the theories of biology. The course is open to students who have had one year's training in science. A considerable amount of assigned reading is required.

Philosophy.

The instruction in this department is under the direction of Dr. Theodore de Leo de Laguna,* Professor of Philosophy, Dr. Grace Mead Andrus de Laguna,* Associate Professor of Philosophy, and Dr. Ethel Ernestine Sabin, Associate in Philosophy.

* Granted sabbatical leave of absence for the year 1921-22. The courses offered by Dr. Theodore de Laguna and by Dr. Grace Mead Andrus de Laguna will be given by substitutes whose appointments will be announced later.

GRADUATE COURSES.

A seminary in the history of philosophy is offered each year and a seminary in ethics and one in logic and metaphysics are offered in alternate years. The subjects of study are changed from year to year through a cycle of four years. A seminary in social and political philosophy is offered in the second semester of each year. Ten hours a week of advanced undergraduate courses are also open to graduate students. Students electing philosophy as their major subject for the degree of Doctor of Philosophy may emphasize either metaphysics or ethics. For the list of approved associated and independent minors see the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Theodore de Laguna conducts in alternate years the following graduate seminary:

Ethical Seminary.

Two hours a week throughout the year.

In 1920-21 the subject is the philosophy of Rousseau. In the first semester the political theory is studied, and in the second the theories of Education, Art, Morals and Religion.

In 1922-23 English Evolutionary Ethics, as exemplified in the writings of Darwin, Spencer, Clifford, Stephen, Alexander, and Hobhouse, and as criticized by Green, Sorley, Huxley, Pringle-Pattison, and Rashdall, will be the subject of the seminary. Special attention is given to the problem of determining the nature and limitations of the genetic method as applied in ethical research.

Dr. Grace de Laguna* conducts in alternate years the following graduate seminary:

Seminary in Logic and Metaphysics.

Two hours a week throughout the year.

In 1921-22 Inductive and Genetic logic is the subject of the seminary. The theories of Sigwart, Mill, Whewell, Bradley, Bosanquet, and Dewey are the basis of investigations. In 1923-24 Contemporary Realism as represented by Moore, Russell, Alexander, Perry, McGilvary, and Fullerton will be the subject of the seminary.

Dr. Theodore de Laguna* conducts in alternate years the following graduate seminary:

Seminary in the History of Philosophy.

Two hours a week throughout the year.

In 1921-22 the subject of the seminary is English Empiricism. Special attention is paid to its connection with Associationism and to the development of the theory of scientific method.

In 1923-24 the philosophy of Plato will be discussed in the seminary. Special attention will be paid to the earlier dialogues, to the development of the theory of ideas and the relation of this theory to the teachings and method of Socrates.

Dr. Sabin conducts in alternate years the following graduate seminary:

Seminary in the History of Philosophy.

Two hours a week throughout the year.

In 1920-21 Descartes and Spinoza are studied with special reference to their view of the relation between idea and object.

In 1922-23 the philosophy of Kant will be the subject of the seminary. The principal writings of the critical period are read and a careful study is made of the final organization of Kant's system in the *Critique of Judgment*.

* See footnote, page 100.

Dr. Theodore de Laguna* conducts in each year the following graduate seminary:

Seminary in Social and Political Philosophy.

Two hours a week during the second semester.

The topics chosen for discussion will vary from year to year. Prominent among them will be: the general nature of law; sovereignty and allegiance; the conception of personal liberty; property; punishment; marriage and the family; moral education.

This seminary may be elected separately, or may be combined with the seminary in Social Psychology, given two hours a week during the first semester, as a seminary for students in the Department of Social Economy and Social Research.

Dr. Theodore de Laguna,* Dr. Grace de Laguna,* and Dr. Sabin conduct in each year the philosophical journal club.

Philosophical Journal Club.

Two hours once a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent reviews and philosophical articles.

The following advanced undergraduate courses may be attended by graduate students:

Dr. Grace de Laguna* offers in each year the following minor course:

History of Philosophy.

Five hours a week during the second semester.

Ancient philosophy is very briefly treated. The greater part of the course is devoted to the discussion of selections from the principal writings of Bacon, Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, and Hume.

Dr. Theodore de Laguna* offers in each year the following major course:

Recent Philosophical Tendencies.

Five hours a week during the second semester.

This course includes a discussion of such theories as pragmatism, idealism, neo-realism, etc.

Dr. Sabin offers in each year the following major course:

From Kant to Spencer.

Five hours a week during the first semester.

The course is principally occupied with the development of the post-Kantian idealism, and with the naturalistic systems of Comte, J. S. Mill, and Spencer.

Dr. Theodore de Laguna* offers in each year the following minor course:

Elementary Ethics.

Five hours a week during the first semester.

The course begins with a survey of the development of typical moral standards in the course of human progress from primitive to modern conditions. This is followed by a critical study of the theory of moral values, with especial reference to the phenomena of moral evolution. The concluding weeks are devoted to an introduction to the more general problems of social philosophy in their bearing upon the ideals of English and American liberalism.

* See footnote, page 100.

Psychology.

The instruction in this department is under the direction of Dr. James H. Leuba,* Professor of Psychology, Dr. Clarence Errol Ferree, Professor of Experimental Psychology and Director of the Psychological Laboratory, Dr. Gertrude Rand, Associate in Experimental and Applied Psychology, and Dr. Ethel Ernestine Sabin, Associate in Philosophy, Miss Margaret Montague Monroe, Assistant Demonstrator in Experimental Psychology, and Miss Louise Littig Sloan, Assistant Demonstrator in Applied Psychology.

GRADUATE COURSES.

Twelve hours of graduate lectures and seminary work are offered in each year in addition to the direction of private reading and original research. Ten hours a week of advanced undergraduate courses are also open to graduate students. The laboratories of experimental psychology are open for research work. Students may offer either Social Psychology or Experimental and Systematic Psychology as a major subject for the degree of Doctor of Philosophy. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

Dr. Leuba* conducts in each year the following graduate seminaries:

Psychological Seminary.

Two hours a week throughout the year.

As the foundation of the work of the seminary one or two of the following subjects will be chosen each year: the psychology of mental and moral deficiencies with reference to the social problems they present, including case studies and research work in problems of delinquency; instinct, feeling and emotion; the psychology of religion and of ethics; social psychology; abnormal psychology (mental disorders, the Freudian psychology, arrested mental development, and its social and educational implications, etc.).

Seminary in Social Psychology.

Two hours a week during the first semester.

In 1921-22 and again in 1923-24 abnormal psychology, chiefly mental and moral deficiency, and its social implications: or temperament and character and their instinctive and emotional foundation will be studied.

In 1920-21 and again in 1922-23 the principles of social psychology and their applications to social problems are the subject of the seminary.

This seminary together with the seminary in Social Philosophy, given in the second semester, may be counted as a seminary by students in the Department of Social Economy and Social Research.

Dr. Ferree conducts in each year the following graduate seminary:

* Granted sabbatical leave of absence for the year 1921-22. The courses announced by Professor Leuba will be given by a substitute whose appointment will be announced later.

Seminary in Experimental and Systematic Psychology.

Three hours a week throughout the year.

This seminary is intended, primarily, to give a systematic presentation of the literature of experimental psychology. Due consideration, however, will be given to all points of systematic importance. The work is grouped about the following topics; sensation, the simpler sense complexes, perception and ideas, feeling and the affective processes, attention, action, and the intellectual processes (memory, association, imagination, etc.). The course covers three years; but the topics chosen and the time devoted to each vary from year to year according to the needs of the students.

Psychological Laboratory Work.

The laboratory work consists of individual practice and research.

Dr. Ferree and Dr. Rand conduct in each year the following seminary:

Seminary in Research Methods and Problems.

Three hours a week throughout the year.

The object of this seminary is to give training in research. In addition to the work in the laboratory supplementary reading, reports and discussions are required. In special cases the course may be elected for a greater number of hours.

Dr. Rand conducts in each year the following seminaries:

Seminary in Applied Psychology.

Two hours a week throughout the year.

Laboratory Work.

Four hours a week throughout the year.

This course combines seminary, laboratory drill and research features, and covers the psychological aspects of mental testing with special application to problems of vocational guidance and to the testing of normal adults and adult and juvenile delinquents and defectives.

In the seminary work, the requirements of mental tests and their standardization and statistical treatment are considered. The laboratory drill work consists of training in the application of general intelligence and diagnostic tests to normal children and adults. This furnishes a standard of the normal reactions to the tests as well as practice in giving the tests. Later the work is with delinquents and defectives. The research work will be done in connection with Vocational Guidance Bureaus. Two problems will be considered here: (a) the devising and standardizing of specific tests for diagnosing ability for different vocations; and (b) the determination of the average level of intelligence needed to meet the demands of different vocations. The course is open only to graduate students who have had training in experimental psychology.

Seminary in Special Laboratory Problems in Applied Psychology.

Four hours a week throughout the year.

This seminary is offered to students who have attended the seminary in Applied Psychology and wish to pursue more advanced work.

Dr. Leuba,* Dr. Ferree and Dr. Rand together conduct in each year the psychological journal club.

Psychological Journal Club.

One hour a week throughout the year.

The advanced students meet with the instructors once a week to hear or read reports on the literature of the subject and on the work done in the laboratory.

* See footnote, page 103.

The following advanced undergraduate courses may be attended by graduate students:

Dr. Leuba* offers in each year the following major and minor courses:

Social Psychology: The Psychology of Group Life and the Origin and the Nature of Magic, Religion, Ethics, Science and Art.

Five hours a week during the first semester.

Psychology has so far been concerned almost exclusively with individuals, human or animal, normal or abnormal. But a community, a crowd, an industrial trust, do not behave as the individuals composing them would behave if they acted independently. For this reason the study of the laws of social interrelation and of social action has become a separate branch of psychology.

The Psychology of Instinct and Emotion, and Animal Behaviour.

Five hours a week during the second semester.

Although the course in animal psychology does not necessitate a special knowledge of biology, yet it appeals to students of that science since it deals with animal behaviour. Time is spent on an analysis of the methods by which animals learn. This part of the course is of special interest to students of education because of the light thrown upon the problems of mental acquisition in man.

Dr. Ferree and Dr. Rand offer in each year the following minor course:

Experimental Psychology.

Five hours a week during the first semester.

Laboratory Work.

Four hours a week during the first semester.

The lectures constitute an abbreviated course in systematic psychology in which the historical, critical, and theoretical features of the subjects covered are discussed and the experimental features demonstrated. Especial stress is laid on the comparative study of methods. The laboratory work consists of individual practice.

Dr. Ferree offers in each year the following elective course:

Advanced Experimental Psychology.

Two hours a week throughout the year.

This course consists of five hours laboratory work a week, the students being assigned problems to investigate.

Dr. Rand offers in each year the following major course:

Applied Psychology.

Five hours a week during the second semester.

Laboratory Work.

Four hours a week throughout the second semester.

The specific applications of psychology form the subject matter of this course. An important feature is the application to the work of the clinic. Demonstrations are made of mental equipment and individual practice is given in mental testing. The applications of psychology to law, medicine, vocational guidance, advertising, etc., are briefly considered.

Education.

This Department is organized in part from the Phebe Anna Thorne Endowment and is connected with the Phebe Anna Thorne Model School.

The instruction in Education is under the direction of Dr. Matilde Castro,* Professor of Education and Director of the Phebe Anna Thorne Model School, and Dr. Ada Hart Arlitt, Associate in Educational Psychology.

The work of the Graduate Department of Education is intended for graduate students only. No undergraduate students are permitted to take any graduate work in education although graduate students may if they so desire elect undergraduate courses in education and psychology and other subjects. The courses are planned for graduate students who wish to study education for one, two, and three years on the principle that about one-half of the student's time will be given to purely educational courses and the remaining half to courses in the subjects in which she is preparing herself to teach. The degree of Master of Arts in Education is open to graduates of Bryn Mawr College and of other colleges of high standing under the general conditions prescribed for the degree of Master of Arts. The degree of Doctor of Philosophy in Education is open to graduates of all colleges of high standing under the general conditions prescribed for the degree of Doctor of Philosophy.

The Phebe Anna Thorne Model School.

The Phebe Anna Thorne School opened in the autumn of 1913 under the direction of the Bryn Mawr College Graduate Department of Education. It is maintained by an endowment of one hundred and fifty thousand dollars given by the executors of the estate of the late Phebe Anna Thorne to perpetuate her deep interest in school education and her desire to further research in the best methods of teaching school subjects. The Phebe Anna Thorne School is an integral part of the Graduate Department of Education and affords its students an opportu-

* Granted sabbatical leave of absence for the year 1921-22. The courses offered by Professor Castro will be given by a substitute whose appointment will be announced later.

nity to follow the work of the expert teachers of the model school and discuss in seminars conducted by the professors of education the various problems of teaching and administration as they arise from day to day. Pupils are admitted to the primary department at six years of age and to the elementary course at nine or ten years of age and will be fitted to enter Bryn Mawr and other colleges on the completion of a seven or eight years' school course based on the soundest available theory and practice of teaching to be found in this country or abroad. It is believed that the opportunity of studying the newest approved methods of secondary teaching will enable teachers who have studied in the Graduate Department of Education to teach more efficiently and to command materially higher salaries.

GRADUATE COURSES.

In addition to six seminars in education, there are offered in each year observation classes in the Phebe Anna Thorne Model School. The Department of Education also conducts an Educational Clinic in which examinations are made and advice given in regard to cases of retardation in special school subjects, general retardation or any other maladjustment to school environment. Students electing education as their major subject for the degree of Doctor of Philosophy may elect educational psychology, educational methodology, economics, social economy, social psychology, or experimental and systematic psychology, as the associated minor. The list of approved independent minors will be found in the Regulations of the Academic Council.

Dr. Castro* conducts in each year the following graduate seminars:

Seminary in Educational Methods and Measurements.

Two hours a week throughout the year.

The seminary takes up the principles of educational methods and teaching technique. The latter part of the work deals with the theory and practice of educational measurements. The special subjects considered vary from year to year.

Seminary in Social Education.

Two hours a week during the first semester.

Not offered in 1921-22.

The essentials of educational theory and practice for social workers are studied in this seminary. The subjects dealt with serve as an introduction to the educational principles involved in the intelligent direction of such activities as community centres, settlement classes, clubs, etc. Among the subjects studied is the characteristic mental and physical development of childhood, adolescence, youth, and maturity. This study is used as a basis for the selection of the educational materials and methods appropriate to the needs and capacities of different groups of varying ages and differing educational opportunities.

* See footnote, page 106.

Dr. Castro* and Dr. Arlitt conduct in 1921-22 and in each succeeding year the following graduate seminars:

Seminary in Advanced Experimental Educational Psychology.

Two hours a week throughout the year.

Laboratory Work.

Four hours a week throughout the year.

The seminary considers the main categories of educational psychology from a theoretical and experimental point of view, and studies especially the psychology of school and high school subjects. If the student's training in psychology has been inadequate she is required to take the seminary in Educational Methods and Measurements or the requisite undergraduate work in education.

Seminary in Research Problems in Educational Psychology.

Two hours a week throughout the year.

This seminary is open only to candidates for the degree of Doctor of Philosophy.

Advanced History of Education.

Two hours a week during the first semester.

Philosophy of Education.

Two hours a week during the second semester.

These two courses taken together are equivalent to one seminary and are given in the first semester by Dr. Arlitt and in the second semester by Dr. Castro. Students electing this seminary must have previously taken two seminars in Education.

Dr. Arlitt conducts in each year the following graduate seminary:

Seminary in Intelligence Tests.

Two hours a week throughout the year.

Laboratory Work in Intelligence Tests.

Four hours a week throughout the year.

The work of the seminary is devoted to a critical survey of the field of mental tests. The laboratory work includes training in the use of tests followed by the practical application of them in schools.

Dr. Castro* and Dr. Arlitt together conduct the journal club.

Journal Club in Education.

Two hours once a fortnight throughout the year.

The advanced students meet with the instructors once a fortnight to report on and discuss recent reviews and articles, and the results of special investigations are presented for comment and criticism.

FREE ELECTIVE COURSES.

Dr. Castro* offers in each year the following undergraduate courses, open to graduate students:

Education.

Two hours a week throughout the year.

The course interprets modern educational problems from the standpoint of their social setting; develops the psychological principles underlying the technique of teaching and demonstrates their application; and discusses the treatment of children individually and in groups in school and extra-school activities.

* See footnote, page 106.

It is conducted as a general survey course covering the subject-matter indicated, or various topics are stressed and studied more intensively according as the interests of the class vary from teaching to social work or to a more general interest in educational problems.

The Psychology of Childhood.

Three hours a week throughout the year.

The course traces the mental, moral, and physical development of children from infancy through adolescence. A comparative study is made of the psychology of deficient, normal, and gifted children, and attention is given to their educational treatment.

Dr. Arlitt offers in each year the following undergraduate courses, open to graduate students:

Experimental Educational Psychology. *Three hours a week throughout the year.*

Laboratory Work.

Two hours a week throughout the year.

In the first semester a study is made of sensori-motor learning, perceptual learning, and learning of the problem-solving type. Particular emphasis is laid on the conditions and methods of efficient study and on the training of memory.

In the second semester the course takes up the study of school subjects from the point of view of laboratory experimentation and a survey of the field of group and individual tests and educational scales and measurements.

History of Education.

Two hours a week throughout the year.

The course considers the great educational movements in the light of their historical development. Emphasis is laid on the extent to which these movements influenced and were influenced by the social life and customs of the periods in which they originated.

Classical Archæology.

The instruction in this department is under the direction of Dr. Rhys Carpenter, Professor of Classical Archæology and Dr. Mary Hamilton Swindler, Associate in Latin and Archæology.

Two archæological seminaries of two hours a week each and a graduate course amounting to one hour a week throughout the year are offered to graduate students who have done elementary archæological work, and also a journal club meeting one and a half hours a fortnight. In addition individual students will be directed in special work by means of private conferences.

Undergraduate courses of three hours a week and two hours a week are offered, affording an introduction to the various branches of classical archæology. The undergraduate courses are fully illustrated with lantern-slides, and photographs are available for review and comparison. In connection with graduate courses the students have access to the collections belonging to the department containing replicas of Greek and Roman coins, facsimiles of gems and seals, and a collection of original vase fragments, many of which are by known masters.

GRADUATE COURSES.

Two seminars in archæology, a graduate course, and a journal club are offered to graduate students in addition to the undergraduate courses which are open also to graduate students. A good reading knowledge of both French and German is indispensable, and familiarity with both Greek and Latin, though not required, is of the utmost value for graduate work in archæology.

Students electing classical archæology as a major subject for the degree of Doctor of Philosophy must have taken the major undergraduate course in Greek and the minor undergraduate course in Latin or courses equivalent to these. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Carpenter conducts in each year the following graduate seminary:

Archæological Seminary, Dr. Carpenter. *Two hours a week throughout the year*

This course is open only to graduate students who have had some previous training in classical archæology. The order of the subjects may be changed in accordance with the needs of the students.

In 1920-21 fifth century Greek sculpture is the subject of the seminary.

In 1921-22 Greek minor arts (coins, gems, terra-cotta) will be studied.

In 1922-23 Greek Architecture will be studied in the first semester, and Roman architecture in the second semester.

Dr. Carpenter offers in 1920-21 and in each succeeding year the following graduate course:

Greek Epigraphy,

One hour a week throughout the year.

In the first semester the origin of the Greek alphabet and the epichoric forms are studied. Roehl's *Imagines* and Part I of Robert's *Introduction to Greek Epigraphy* are used as textbooks. In the second semester a variety of inscriptions of artistic and topographic interest are read. The emphasis is archæological rather than linguistic or politico-historical.

Dr. Swindler offers in each year the following graduate seminary:

Archæological Seminary,

Two hours a week throughout the year

In 1920-21 Etruscan and Roman Archæology is the subject of the seminary. A survey of Etruscan sites and monuments is followed by a study of the monuments of Rome from the earliest times down to the Age of Constantine.

In 1921-22 the subject of the seminary during the first semester will be Aegean Archæology with emphasis on the recent discoveries in Crete. During the second semester the subject will be Ancient Painting, including a detailed survey of Cretan frescoes, painted plaques, stelae, and sarcophagi, Greek vases of the Polygnotan era, paintings found in Etruscan tombs, Pompeian wall decoration, and the mummy portraits from the Fayum.

In 1922-23 Greek vases will be the subject of the seminary with special reference to the vase masters of the fifth century.

Dr. Carpenter and Dr. Swindler together conduct in each year the archæological journal club.

Archæological Journal Club. *One and a half hours a fortnight throughout the year.*

The graduate students and the instructors meet for the presentation and discussion of topics of current archæological literature.

The following undergraduate courses may be attended by graduate students:

Dr. Carpenter offers in each year the following minor and major courses open to graduate students:

Greek Sculpture.

Three hours a week throughout the year.

A critical study of the rise, perfection, and ultimate developments of sculpture in Greece. The course is intended as a general introduction to the principles and appreciation of sculpture.

Art and Life in Hellenistic Towns.

Two hours a week during the first semester.

A reconstruction, from existing remains, of town and city life in the period between the death of Alexander the Great and the Roman domination.

Ancient Architecture.

Three hours a week throughout the year.

An introductory outline of Egyptian, Cretan, Assyrian, Persian, and Mycenean building is followed by a detailed study of the principles and practice of architecture in Greece and Rome. The course ends with a brief survey of Byzantine, Renaissance, and present-day classical styles. Emphasis is laid on architectural evolution and its connection with the civilization of the times

Greek and Roman Minor Arts.

Two hours a week during the second semester.

The course treats of Greek and Roman bronze statuettes, terra-cotta figurines, coins, gems, jewelry, silverware, and similar objects, mainly for their artistic and cultural interest. The first six lectures deal with Cretan and Mycenean art. This course supplements that on Greek vase-painting given in the first semester.

Dr Wright offers in each year the following free elective courses, open to graduate students:

Greek Religion and Greek Myths.

Two hours a week during the first semester.

This course is supplementary to Greek and English literature and to Oriental and Classical Archæology, and treats of the development of Greek religion, the attributes of the Olympian Gods, such as Zeus and Apollo, their ritual, and the influence on literature of Greek myths. This course may be offered as part of the minor course in Classical Archæology. It is given in 1920-21 by Mr. Armstrong, the same subject being continued throughout the year.

Literary Geography of Greece and Asia Minor.

Two hours a week during the second semester.

This course traces not only the literary legends of famous sites such as Athens, Thebes, Troy and Constantinople, but also their political history. It may be offered as part of the minor course in Classical Archæology.

Dr. Swindler offers in each year the following minor and major courses:

Ancient Painting and Vases.

Two hours a week during the first semester.

The course traces the development of ancient painting. The material studied includes Egyptian and Cretan frescoes, Greek vases, Pompeian wall paintings, and the paintings from Etruscan sites.

Ancient Rome.

Two hours a week during the second semester.

The course deals with the art and material civilization of Rome through Republican and Imperial times. It is intended both as an archaeological background to Latin studies and as an introduction to Roman art, especially sculpture and painting. The course includes a study of Etruscan art and its influence on early Rome.

History of Art.

The instruction in this department is under the direction of Miss Georgiana Goddard King, Professor of the History of Art, and Miss Helen Fernald, Instructor and Demonstrator in the History of Art.

A seminary of two hours a week and a journal club of one hour a week are offered to graduate students who have done elementary work in history of art. In addition individual students will be directed in special work by means of private conferences.

The undergraduate work is divided into courses of three hours a week and two hours a week on painting, sculpture and architecture.

All the courses are illustrated with lantern slides, and photographs are available for review and comparison.

GRADUATE COURSES.

A seminary in History of Art of two hours a week throughout the year is offered to graduate students who have done elementary work in history of art.

In addition to the graduate seminary announced, other courses will be provided as need for them arises, and individual students will be directed in special work by means of private conferences. History of Art may be offered as a minor for the degree of Doctor of Philosophy. A list of major subjects with which it may be offered will be found in the Regulations of the Academic Council.

Miss King conducts in each year the following graduate seminary:

Seminary in History of Art.

Two hours a week throughout the year.

In 1920-21 the subject of the seminary is Spanish Painting up to 1550.

In 1921-22 the subject will be Mediæval Art in the period that lies between the sixth and the sixteenth centuries. Certain related problems will be selected and considered.

In 1922-23 the seminary will be devoted to Italian Art, probably a study of Sienease painting.

Graduate work in modern painting will also be arranged for any student who wishes to combine History of Art with English or French literature. While the order of the seminaries may be altered to suit the needs of individual students, certain canons of art, and certain æsthetic problems will be considered in successive years.

Miss King and Miss Fernald together conduct in each year the journal club in the history of art.

Journal Club in the History of Art. *Two hours once a fortnight throughout the year.*

The instructors and the graduate students meet for the presentation and discussion of current literature on the History of Art.

POST-MAJOR COURSES.

Miss King offers in 1920-21 and again in 1921-22 the following post-major course, open to graduate students:

Spanish Painting.

Three hours a week throughout the year.

This course is open only to students who have completed the minor and major work in history of art, or an equivalent course. The sources and development of Spanish painting are considered from the early miniature painters down to living painters. Students are expected to learn something about the Spanish character and history and to make short trips to see paintings on exhibition in America.

The following undergraduate courses may be attended by graduate students:

Miss King offers in 1920-21 and again in 1921-22 the following minor and major courses:

Italian Painting of the Renaissance from the Middle of the Thirteenth to the Middle of the Sixteenth Century. *Three hours a week throughout the year.*

In the first semester the Italian Primitives are studied, chiefly in the schools of Florence, Siena, and Umbria; in the second semester the painters of the High Renaissance, with special attention to those of Venice and the north of Italy. The course is illustrated with photographs and lantern slides.

Renaissance Sculpture.

Three hours a week during the first semester.

The first semester is devoted to the sculpture of the Italian Renaissance, the second chiefly to Northern art, and in especial to figure sculpture in France from the finishing of the Cathedrals to the close of the Renaissance. The great sculptors of Germany and Spain will be studied carefully in conclusion. The course is illustrated with photographs and lantern slides.

Modern Painting.

Two hours a week during the second semester.

This course deals with the history of painting since 1800 and comes down to the present year. Students are expected to make trips to Philadelphia and the neighbourhood to study pictures as often as may seem necessary.

The following courses will be offered in 1921-22 by an instructor whose appointment will be announced later:

The Art of the Far East.

Two hours a week throughout the year.

Great Painting in the Seventeenth Century.

Two hours a week during the first semester.

Renaissance Architecture.

Three hours a week during the second semester.

The first semester is devoted to Romanesque and pointed architecture in Italy and Germany, with special attention to the introduction of Gothic into Italy by the Cistercians, and the second semester to the development of Gothic in France and Spain with parallels from English ecclesiastical architecture. The course is illustrated with photographs and lantern slides.

Miss King offers in 1922-23 and in each succeeding year the following minor and major courses:

Italian Painting of the Renaissance from the middle of the thirteenth to the middle of the sixteenth century. *Three hours a week throughout the year.*

This course will be given as in 1921-22.

Mediæval Art, Byzantine and Romanesque.

Three hours a week during the first semester.

Byzantine Art in its various aspects will be studied in the early part of the semester and the question of its origin considered. The latter part of the time will be devoted to architecture and the allied arts in Italy, Germany, France and Spain up to the close of the Romanesque period.

Mediæval Art, Gothic.

Three hours a week during the second semester.

The work of the first semester will be continued, tracing the course of Gothic art down into the Renaissance.

Miss King offers in 1920-21 the following free elective course, open to graduate students:

Minor Arts of the Middle Ages.

Two hours a week throughout the year.

The lectures deal, in succession, with ivories, miniatures, enamels, stained glass, metal work, wood-carving and architectural sculpture, from the decline of Roman art until the beginning of the Renaissance. Photographs and other reproductions are provided for study and reference is made to pieces in museums and other collections accessible during the college year and in vacations. Students electing the course are expected to read at least one foreign language.

Miss Fernald offers in 1920-21 the following undergraduate courses:

Chinese and Japanese Art.

Two hours a week throughout the year.

The aim of the course is to give a comprehensive view of the art of China and Japan from the most ancient bronzes of China to the late school of Japanese colour prints. Emphasis, however, will be laid upon painting, especially the great art of the T'ang and Sung dynasties in China, which is taken up in the first semester. In the second semester painting in Japan is considered, with special attention to the work of Sesshiu and his followers, that of the Kano and Korin schools, and to the school of Japanese colour prints. It is illustrated with photographs, lantern slides, Shimbi Shoin reproductions, and also some originals.

Rembrandt and the Dutch School. *Two hours a week during the second semester.*

A special study of Rembrandt and his works, considering also the work of Hans Hals and the Dutch "Little Masters." Trips will be made to see collections in neighbouring cities.

Mathematics.

The instruction in this department is under the direction of Dr. Charlotte Angas Scott, Professor of Mathematics, and Dr. Anna Pell, Associate Professor of Mathematics.

GRADUATE COURSES.

The graduate courses consist of lectures and seminary work supplemented by private reading under the direction of the instructors, the courses being arranged each year with reference to the wishes and degree of preparation of the students concerned. Students who elect mathematics as a major subject for the degree of Doctor of Philosophy are required to elect mathematics also as an associated minor. The list of approved independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Scott conducts in each year the following graduate seminary:

Mathematical Seminary.

Two hours a week throughout the year.

In 1920-21 one-half of the seminary work deals with the general theory of Plane Algebraic Curves; the other half is devoted to a detailed treatment of cubic curves and a more general discussion of quartic curves.

In 1921-22 Differential Geometry of Curves and Surfaces will be studied in the seminary. While Eisenhart's book will be taken as a guide it is expected that the work will be connected with that of Darboux.

In 1922-23 Topology of Plane Algebraic Curves will be the subject of the seminary.

Seminary work in special plane curves, algebraic or transcendental, will be offered if needed.

Dr. Pell conducts in each year the following graduate seminary:

Mathematical Seminary.

Two hours a week throughout the year.

In 1920-21 Theory of Linear Differential Equations including Existence Theorems, boundary value, oscillation and expansion problems is the subject of the seminary.

In 1921-22 the subject of the seminary for the first semester will be the Calculus of Variations. Besides the general theory, isoperimetric problems and discontinuous solutions will be considered. The subject of the seminary for the second semester will be Integral Equations. The Volterra, Fredholm, Hilbert and Schmidt theories will be studied.

Seminary work in theory of Functions of a Real Variable will be offered if needed.

In 1922-23 Theory of Functions of Infinitely Many Variables and Theory of Linear Difference Equations will be the subjects of the seminary.

Dr. Scott and Dr. Pell together conduct the journal club.

Mathematical Journal Club.

One hour a fortnight throughout the year.

The journal club holds fortnightly meetings at which reports on special topics or memoirs are presented by the instructors and the graduate students.

POST-MAJOR COURSES.

The post-major courses in mathematics are designed to bridge over the interval between the ordinary undergraduate studies and advanced work. They deal, therefore, with the subjects of the major courses carried to

higher developments and treated by higher methods. As the order of mathematical studies differs in different colleges, graduate students frequently find it advisable to devote a part of their time to these courses. Regular written work is expected from all mathematical students, and a reading knowledge of French and German is presupposed.

The post-major courses in any one year amount to five hours a week. The courses given are the following with occasional modifications:

Dr. Scott offers in 1920-21 the following post-major course, open to graduate students:

Special Topics in Geometry.

Two hours a week throughout the year.

Lectures on special topics in geometry, such as homogeneous coordinates, circular coordinates, families of curves, certain transcendental curves, geometrical transformations, etc.

Dr. Scott offers in 1921-22 the following post-major course, open to graduate students:

Lectures on Modern Pure Geometry.

Two hours a week throughout the year.

Dr. Scott offers in 1922-23 the following post-major course, open to graduate students:

Modern Analytical Geometry.

Two hours a week throughout the year.

Lectures introductory to modern analytical geometry, in connection with Salmon's *Conic Sections* and Scott's *Modern Analytical Geometry*.

Dr. Pell offers in 1920-21 and again in 1921-22 the following post-major course, open to graduate students:

General Course in Analysis.

Three hours a week throughout the year.

This course deals with the development of subjects such as determinants, infinite series, Fourier series, definite integrals, etc.

Dr. Pell offers in 1922-23 the following post-major courses, open to graduate students:

Theory of Functions of a Complex Variable.

Two hours a week throughout the year.

Calculus of Finite Differences and Theory of Probabilities.

One hour a week throughout the year.

FREE ELECTIVE COURSES.

Dr. Scott offers when the time of department permits one of the following free elective courses open to graduate students:

Graphic Mathematics.

One hour a week throughout the year.

The course deals with statistical work, probability, and theory of errors. It is recommended to students of economics as well as to students of physics. No knowledge of mathematics beyond the requirement for matriculation is presupposed.

Fundamental Theorems of Algebra and Geometry.

One hour a week throughout the year.

Certain standard problems of historical interest are considered in order to elucidate some of the fundamental principles of mathematics. Either semester may be taken separately. No knowledge of mathematics beyond the requirement for matriculation is presupposed. It is hoped that the work will prove useful to those intending to teach elementary mathematics.

SCIENCE.

Physics, Chemistry, Geology, Biology.

Professors and instructors: Dr. Florence Bascom, Dr. William B. Huff, Dr. David Hilt Tennent, Dr. James Barnes, Dr. Roger Frederic Brunel, Dr. James Llewellyn Crenshaw, Dr. Anna Baker Yates, Dr. Franz Schrader, Mr. Malcolm Havens Bissell, Miss Sue Avis Blake, Miss Mary Jane Guthrie, and Miss Mary L. Morse.

In January, 1893, the Trustees opened Dalton Hall, a large building, containing ample laboratories, lecture-rooms, research-rooms, special libraries, and professors' rooms for the work of the scientific departments. The chemical, geological, biological, and physical laboratories and the laboratory for experimental psychology are open for students from nine to six daily.

The chemical department includes a lecture-room, a large laboratory for the first-year students, and several smaller ones for advanced and special work, a special room for physical chemistry, preparation and balance rooms, and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purpose of instruction and research, and is increasing from year to year. The chemical library contains, besides necessary treatises and reference books, complete sets of the most important chemical journals.

The geological department is equipped with large collections of minerals, rocks, and fossils, a carefully selected library, and laboratories furnished with maps, models, charts, lantern slides, petrologic microscopes, goniometers, and other apparatus necessary for work in undergraduate and graduate courses.

The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with apparatus for the study of experimental physiology.

The physical laboratories are carefully furnished with the apparatus necessary for thorough work.

Graduate work in the natural sciences is highly specialized, and consists of laboratory work, private reading, and special investigations pursued by the student under the guidance of the instructors.

Physics.

The instruction in this department is under the direction of Dr. William B. Huff, Professor of Physics, Dr. James Barnes, Professor of Physics, and Miss Sue Avis Blake, Instructor in Physics.

GRADUATE COURSES.

The graduate seminars consist of lectures, laboratory work, and original research under the direction of the instructors, the lecture courses varying from year to year so that they may be pursued by students through consecutive years. A good working library containing the current and bound numbers of all the important physical journals is kept in the laboratory. Students electing physics as their major subject for the degree of Doctor of Philosophy may elect it also as the associated minor, provided either mathematics or applied mathematics is taken as the independent minor; or mathematics or applied mathematics may be taken as the associated minor. A list of approved independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Huff conducts in alternate years the following graduate seminary:

Physical Seminary.

Three hours a week throughout the year.

In 1920-21 Mathematical Theory of Electricity and Magnetism is the subject discussed. The lectures are based on Maxwell's standard work, and include a general account of the later development of the theory.

In 1922-23 Radio-activity and Discharge of Electricity through gases is the subject of the seminary in the first semester and Electron Theory in the second semester. The earlier lectures treat of the effect of fields on the path of a moving charged particle. A discussion of typical experimental methods of measuring velocity and the ratio of charge to the mass follows. After a study of the phenomena of electrical discharge and of radio-activity a brief account of theories is given. In the Electron Theory the mathematical development of the subject is first dealt with and this is followed by experimental tests of theory.

Dr. Barnes conducts in alternate years the following graduate seminary:

Physical Seminary.

Three hours a week throughout the year.

In 1921-22 Thermo-dynamics and Radiation are the subjects of the seminary. The modern developments of thermo-dynamics and radiation including X-rays and photo-electricity are considered. Attention is paid to the application of the laws of thermo-dynamics in physical chemistry.

In 1923-24 the seminary deals with a general mathematical discussion of physical optics. Students are expected to give detailed reports on the methods and results of investigations which illustrate the theory. When it seems desirable two and a half hours of experimental work will be substituted for one hour of the seminary.

Dr. Huff and Dr. Barnes together conduct the journal club, and the laboratory work.

Physical Journal Club.

One hour a week throughout the year.

The advanced students meet with the instructors once a week to hear or read papers on assigned topics in physics.

Laboratory work.

The laboratory work is arranged for the purpose of familiarizing the student with the methods of research; the student begins by repeating methods and investigations of well-known experimenters, with any modifications that may be suggested, passing on to points of investigation left untouched by previous experimenters, and finally to the study of new methods and the prosecution of original research. Students taking physics as their chief subject for the degree of Doctor of Philosophy are expected to spend all the time possible in the laboratory. In the basement there is a constant-temperature vault designed for accurate comparison of lengths, etc., and the laboratory is provided with special rooms for magnetic, optical, and electrical work. A well-equipped shop and trained mechanics make it possible to have special forms of apparatus constructed which are needed in research work.

POST-MAJOR COURSES.

Dr. Huff offers in 1921-22 the following post-major course, open to graduate students:

Electricity and Magnetism.

Three hours a week throughout the year.

The lectures of this course treat typical mathematical and experimental problems chosen from the various parts of the entire subject. A large number of problems on potential and attraction are assigned.

Dr. Huff offers in 1923-24 the following post-major courses, open to graduate students:

Properties of Matter.

Three hours a week during the first semester.

The lectures cover the general subject of the properties of matter studied from the point of view of the Molecular Theory. The different theories of matter are discussed and an account of recent investigations concerning the relations of matter and electricity is given. Poynting and Thomson's *Properties of Matter* is read in connection with the course.

Theory of Sound.

Three hours a week during the second semester.

The lectures form an introduction to the theory of modes of vibration of pipes, strings, and rods. The theory of music and of musical instruments is then studied. Poynting and Thomson's *Sound* is used during the earlier part of the course, and frequent references are made to Helmholtz and Rayleigh.

Dr. Barnes offers in 1920-21 the following post-major course, open to graduate students:

General Optics.

Three hours a week throughout the year.

These lectures give a general discussion of the theories advanced to explain many phenomena in light. Students are required to have a good knowledge of elementary optics and to be sufficiently familiar with optical apparatus to undertake a detailed study of some special problem.

Dr. Barnes offers in 1922-23 the following post-major courses, open to graduate students:

Spectroscopy.

Three hours a week during the first semester.

The course begins with a complete discussion of the apparatus used in this subject; the results of past and present investigations are then considered, and problems for investigation are pointed out. The many important applications of spectroscopy to astronomy are not neglected. The standard book of reference is Kayser's *Handbuch der Spectroscopie*. Detailed reports of laboratory investigations are required.

Astrophysics.

Three hours a week during the second semester.

This course consists of lectures on the application of physical principles and methods to the study of the composition, structure, and motions of the heavenly bodies. Selected chapters in Moulton's *Celestial Mechanics* and many papers from the *Astrophysical Journal* will be read and discussed.

FREE ELECTIVE COURSE.

Dr. Huff offers in each year the following free elective course, open to graduate students:

Physical Basis of Music.

One hour a week throughout the year.

In the lectures of this course it is planned to present some of the physical principles illustrated in the construction of musical instruments and underlying the general theory of music. Private reading will be assigned.

Chemistry.

The instruction in this department is under the direction of Dr. Roger Frederic Brunel, Professor of Chemistry, Dr. James Llewellyn Crenshaw, Associate Professor of Physical Chemistry, and Miss Mary L. Morse, Demonstrator in Chemistry.

GRADUATE COURSES.

The advanced courses in chemistry consist of lectures upon inorganic, organic, and physical chemistry, seminary work, reports upon current chemical literature, and laboratory exercises. In the laboratory work the students are required to become familiar with the literature bearing upon the subjects they are studying, and it is therefore necessary for them to have a reading knowledge of French and German.

The lecture courses are varied from year to year to meet the requirements of students and to form a consecutive course for those who wish to make chemistry the major subject in the examination for the degree of Doctor of Philosophy. Such students may specialize either in organic chemistry under the direction of Dr. Brunel, or in physical or inorganic chemistry under the direction of Dr. Crenshaw.

No undergraduates are admitted to graduate courses.

Dr. Brunel conducts in each year the following graduate seminary:

Chemical Seminary, Organic Chemistry. *One hour a week throughout the year.*

This seminary is intended primarily for students who are carrying on research in organic chemistry, and consists of reports on assigned topics which are usually related to the research in which the student is engaged.

Dr. Crenshaw conducts in each year the following graduate seminary:

Chemical Seminary, Inorganic Chemistry.

One hour a week throughout the year.

The work of the seminary consists of lectures, required reading, and reports on various topics. The needs of the individual students are considered in selecting the subjects for discussion.

Dr. Brunel offers in each year the following graduate course:

Advanced Organic Chemistry. *One hour a week throughout the year.*

Lectures, reading, and occasional reports cover the historical developments and present status of subjects of current interest. In the year 1920-21 a considerable part of the time is spent upon the carbohydrates.

Students counting this course as the equivalent of a seminary are required to do enough laboratory work to make the work of the course occupy fourteen hours a week. The nature of this work depends so largely on the past training of the student that no definite statement can be made regarding it. A sufficiently advanced student may be assigned a problem to investigate.

Dr. Crenshaw offers in each year the following graduate course:

Physical Chemistry. *Two hours a week throughout the year.*

In the lectures no attempt is made to give a general survey of the subject but certain selected portions of the science are treated in detail and the student is made familiar with problems of current interest. Students counting this course as the equivalent of a seminary will be required to do enough laboratory work to make the work of the course occupy fourteen hours a week. The laboratory work will consist of physico-chemical research.

Dr. Brunel and Dr. Crenshaw together conduct the journal club.

Chemical Journal Club. *One hour a week throughout the year.*

The advanced students, with the instructors, meet to hear reports and discussions on recent scientific articles.

POST-MAJOR COURSES.

Dr. Brunel offers in each year the following post-major course, open to graduate students:

Organic Chemistry. *Two hours a week throughout the year.*

The course consists of lectures, assigned reading with occasional reports, and laboratory. It is intended to broaden the student's acquaintance with the subject and to serve as an introduction to the study of present day chemical problems. The work of the first semester of the course is required for admission to Johns Hopkins Medical School.

At least four hours of laboratory work a week will be required, three hours' credit being given for the course. The laboratory work will consist of the preparation of compounds, organic analysis, and study of the methods for determining the constitution of organic compounds.

Dr. Crenshaw offers in each year the following post-major course, open to graduate students:

Physical Chemistry.

Two hours a week throughout the year.

The aim of the lectures is to extend the student's knowledge of physical chemistry and to lay a foundation for independent work on this subject. The lectures are supplemented by assigned reading and reports intended to give a general outline of the subject. The solution of a large number of problems will be required.

The laboratory work amounting to four and a half hours a week is designed to prepare the students for physico-chemical research.

Dr. Crenshaw offers in each year the following post-major course, open to graduate students:

Inorganic Chemistry.

One hour a week throughout the year.

Selected topics in inorganic chemistry are discussed in detail and parallel reading is required. In the laboratory work of four and a half hours a week advanced quantitative analyses are included. The work of the second semester of this course is required for admission to Johns Hopkins Medical School.

Geology.

The instruction in this department is under the direction of Dr. Florence Bascom, Professor of Geology and Mr. Malcolm Havens Bissell, Instructor in Geology.

The instruction offered in geology includes, in addition to the minor and major courses, three free elective courses of two hours and one hour a week, four post-major courses of two and three hours a week open only to graduates and to undergraduates that have completed the major course in geology, and two graduate seminars of three hours a week.

Post-major courses in petrography or mineralogy, economic geology, stratigraphy, and paleontology are offered in each year, and are designed to train the student in exact methods for the determination of rock and mineral species, in the genesis of ores, and in the principles of stratigraphy and paleontology. They are an essential preliminary to research work in the science.

Excellent illustrative material for the graduate and undergraduate courses is furnished by the geological and paleontological collections of the college, including the Theodore D. Rand rock and mineral collection, which alone contains over

20,000 specimens, by the private collections of the instructors, and by material lent by the United States Geological Survey; the department is also fortunate in its proximity to the museum of the Academy of Natural Sciences of Philadelphia; within easy reach of the college there are excellent collecting fields for fossil, mineral, and rock specimens.

GRADUATE COURSES.

The seminary in petrology and crystallography should be preceded by the major and post-major courses or their equivalents and is intended primarily for graduate students wishing to make inorganic geology a major subject for the degree of Doctor of Philosophy. The graduate seminary in crystallography is also intended to meet the needs of graduate students in chemistry who wish to make crystallography a minor subject for the degree of Doctor of Philosophy. The graduate seminary in physiography is designed primarily for graduate students wishing to make physiography a major subject for the degree of Doctor of Philosophy. Further graduate seminars in petrology and physiography will be arranged to suit the requirements of candidates for the degree of Doctor of Philosophy and research problems will be assigned.

Students may specialize either in petrology and crystallography, under the direction of Dr. Bascom, or in stratigraphic geology and physiography, under the direction of Mr. Bissell, but students who make inorganic geology the major subject of examination must take either physiographic geology, inorganic chemistry, or crystallography as the associated minor and students who elect physiographic geology as the major subject must take either inorganic geology or biology as the associated minor. A list of approved independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to the graduate courses.

Dr. Bascom conducts in each year the following graduate seminary:

Petrology, or Crystallography or Metamorphic Geology.

Three hours a week throughout the year.

The seminary is conducted by means of informal discussions, required reading, laboratory work, and formal reports. The selection of subjects in petrology is dependent upon the needs of the individual students and is varied from year to year. In crystallography direction is given in crystal measurement with the two-circle goniometer, in crystal projection, and crystal drawing. When metamorphic geology is the subject of the seminary the products and processes of anamorphism and katamorphism are investigated and classified.

Mr. Bissell conducts in each year the following graduate seminary:

Seminary in Physiography.

Three hours a week throughout the year.

A broad study of the physiographic cycle forms the basis of this course. The general principles governing the development of land forms are applied to various physiographic types, and the evolution of surface features under the control of climate and geologic structure is studied in considerable detail. This is followed by a study of definite regions illustrating the application of physiographic principles to problems of structural, economic and stratigraphical geology. Lectures, outside reading, reports, map work and field excursions are the methods of instruction. Research problems are taken up if time permits.

Dr. Bascom and Mr. Bissell together conduct the journal club.

Geological Journal Club.

Two hours once a fortnight throughout the year.

The graduate students and the instructors meet for the presentation and discussion of recent investigations or recent geological literature.

POST-MAJOR COURSES.

Dr. Bascom offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Determinative Mineralogy.

Two hours a week throughout the year.

In this course lectures and laboratory practice deal with the determination of minerals by means of physical tests and by blow-pipe analysis. Special emphasis is placed on crystal form and practice is given in the use of the two-circle contact goniometer.

Dr. Bascom offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

Petrography.

Three hours a week throughout the year.

During the first semester the lectures deal with the principles of optical crystallography, the optical means of mineral determination, and the petrographic characters of rock-forming minerals. In the second semester the textures, constitution, origin, geographic distribution, and geologic associations of igneous rocks are treated; practice is given in the quantitative system of classification. Special field problems may be given to the students for independent solution.

Mr. Bissell offers in 1920-21 and again in 1922-23 the following post-major course, open to graduate students:

Stratigraphy and Paleontology.

Three hours a week throughout the year.

The work of the first semester consists largely of lectures and assigned reading, and is devoted to a thorough study of the principles of sedimentation. This is followed by a consideration of the laws governing the distribution of organisms in time and space.

In the second semester the lectures deal with the evolution of the continents and seas as shown by the record of the sedimentary rocks and their fossils. The successive formations of North America are studied in order, and ancient physiographic conditions deduced as accurately as possible. Particular attention is paid to the evolution of life through the different geological periods and the changes of environment controlling it. In the laboratory the typical fossils of each formation are studied, and the student is required to learn the guide fossils of the more important geological horizons.

Mr. Bissell offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

Economic Geology.

Two hours a week throughout the year.

The origin and geological occurrence of the useful minerals are treated in considerable detail, particular attention being given to the metallic ores.

FREE ELECTIVE COURSES.

Dr. Bascom offers in 1920-21 and again in 1922-23 the following free elective course, open to graduate students:

Cosmogony.

One hour a week throughout the year.

The work of the course is conducted by means of lectures, required reading, and classroom discussion. The lectures treat of the origin of the earth, the growth of the continents and the development of landscape, and are illustrated by lantern slides. Reading is assigned to supplement the lectures and to furnish further material for discussion. The course is intended to give a survey of the more important results reached by geologic research. It will be given only if elected by a sufficient number of students.

Mr. Bissell offers in 1920-21 and again in 1922-23 the following free elective course, open to graduate students:

Principles of Modern Geography.

Two hours a week throughout the year.

In this course the scope of the modern science of geography and the fundamental principles upon which it is based will be discussed and illustrated. The physical environment of man will be first considered, and the manner in which this environment has influenced the growth and expansion of races and nations, the development of systems of government and philosophy, and the rise of commerce and industry will then be illustrated. The logical sequence of cause and effect will be particularly emphasized, and every effort will be made to encourage independent thought on the part of the student. A considerable amount of private reading will be required.

Mr. Bissell offers in 1921-22 and again in 1923-24 the following free elective course, open to graduate students:

Natural Resources and Their Conservation.

Two hours a week throughout the year.

The aim of this course is to impart the knowledge concerning natural resources and their economic and political significance which is essential to a proper understanding of present day national and world problems. Some of the topics discussed are: The increasing dependence of man on natural resources; iron and coal as essentials of modern civilization; mechanical power and its sources, past, present and future; food supplies of the present and future; natural resources and international politics. The treatment of the subject will be as broad as possible, and particular attention will be paid to the problems of the United States.

Biology.

The instruction in this department is under the direction of Dr. David Hilt Tennent, Professor of Biology, Dr. Anna Baker Yates, Associate in Physiology and Biochemistry, Dr. Franz Schrader, Associate in Biology, and Miss Mary Jane Guthrie, Demonstrator in Biology.

GRADUATE COURSES.

The advanced courses are varied from year to year, so as to form a consecutive course for students that wish to make biology one of the chief subjects of the examination for the degree of Doctor of Philosophy. Such

students may specialize either in morphology under the guidance of Dr. Tennent and Dr. Schrader, or in physiology or in physiological chemistry under the guidance of Dr. Yates. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Tennent conducts in each year the following graduate seminary:

Seminary in Zoology.

Three hours a week throughout the year.

In 1920-21 and again in 1922-23 Cytology is the subject of the seminary. The work deals with the anatomy of the cell and the relations and functions of its various structures in unicellular and multicellular organisms. Special attention is given to the phenomena of spermatogenesis and oögenesis and the theories connected therewith.

In 1921-22 Embryology of Invertebrates is the subject of the seminary. The work includes a systematic survey of the normal development of invertebrates; of the problems of germinal organization, cleavage and differentiation, and a discussion of the bearing of these questions on evolution and inheritance.

Dr. Yates conducts in each year the following graduate seminary:

Seminary in Physiology and Biochemistry.

Three hours a week throughout the year.

In 1920-21 the physiology of the cell is studied. The work includes a consideration of the physical and chemical constitution of living matter; of the physico-chemical laws underlying life processes; of the dynamics of the single cell and of groups of cells aggregated into tissues.

In 1921-22 the comparative physiology of the nervous system will be studied. The development of the nervous system will be traced from the primitive forms to its complex form in the higher vertebrates. The bearing of this development on evolution and the significance of this development in the vital functions of the higher organisms will be studied.

In 1922-23 the subject will be the general metabolism of the mammalian organism and the influence of the endocrine organs in regulating and modifying vital processes.

The order of the subjects may be varied to meet the needs of the students.

Dr. Schrader conducts in 1922-23 the following graduate seminary:

Seminary in Biology.

Three hours a week throughout the year.

In 1922-23 Genetics is the subject of the seminary. The work includes a discussion of biometrical methods and results; of investigations on "pure lines"; of the effectiveness of selection; of the relation between chromosomes and heredity; of various theories of heredity and of the application of these ideas in animal and plant breeding.

Dr. Tennent, Dr. Yates and Dr. Schrader together conduct the journal club and the laboratory work.

Biological Journal Club.

One hour a week throughout the year.

The advanced students and the instructors meet for the discussion of topics of current biological literature.

Laboratory Work.

There is no regular course of laboratory instruction for graduates. Each student must devote a considerable portion of her time to such work and will be given a problem for verification or extension. The nature of the work depends in each case on the qualifications of the student.

POST-MAJOR COURSES.

Dr. Tennent offers in 1920-21 and again in 1922-23 the following post-major courses, open to graduate students:

Protoplasm, the Cell, and Cytological Technique.

One hour a week during the first semester.

This course consists of a study of the structure of protoplasm, the structure of the cell, the phenomena of cell division, maturation, and fertilization. Both plant and animal cells will be studied, and instruction will be given in methods of preparing cytological material for microscopical examination. This course is to be taken with four hours laboratory work as a two-hour course.

Experimental Morphology.

One hour a week during the second semester.

The object of this course is to give a general historical view of experimental morphology of both plants and animals, to discuss some of the methods employed, to point out the results already obtained, and to indicate the nature of the work now being done in the subject. This course is to be taken with four hours laboratory work as a two-hour course.

Dr. Tennent offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

Embryology of Vertebrates.

One hour a week throughout the year.

This course consists of lectures, assigned reading, and laboratory work on the embryology of vertebrates. The lectures deal with the development of specific forms and with theoretical questions of embryological interest. The department has material for the study of the development of Amphioxus, Ascidian, Amia, Lepidosteus, Squalus, Ctenolabrus, Necturus, Rana, Chrysemys, Chick, and Pig. At least four hours of laboratory work are required.

The course is divided as follows: First semester, Early stages of development. Second semester, Organogeny.

Dr. Yates offers in 1920-21 and again in 1922-23 the following post-major course open to graduate students:

Biochemistry.

Two hours a week throughout the year.

The course consists of lectures, assigned reading, quizzes oral and written and at least four hours of laboratory work a week. It deals with the chemical constitution of living matter; with the sources from which the chemical substances necessary for life are derived; with the chemical changes by which non-living material is incorporated as living matter; with the chemical changes by which both living and non-living matter provide energy for the carrying on of vital processes. In particular the chemical characteristics of the fluids and tissues of the body are studied so as to show, as far as possible, the actual chemical phenomena underlying or influencing the normal functions of the mammalian organism.

Dr. Yates offers in 1922-23 and again in 1924-25 the following post-major course open to graduate students:

Advanced Physiology.

Two hours a week throughout the year.

This course consists of lectures, assigned reading, reports on current investigations, quizzes, and at least four hours of laboratory work a week. It will include an intensive study of the physiological properties of highly specialized tissues in lower vertebrates and mammals. The course will further deal with the interdependence of the parts of the organism and the relation of the parts to the whole, which makes possible an effective and smoothly running living mechanism.

Dr. Schrader offers in each year the following post-major course open to graduate students:

Physiology of Microorganisms.

One hour a week throughout the year.

During the first semester the time is devoted to the study of yeasts, moulds and bacteria. In the second semester problems of growth, cell division, regeneration, and reproduction in protozoa are treated. At least four hours of laboratory work a week is required. A special problem is assigned to each student.

Dr. Tennent, Dr. Yates and Dr. Schrader conduct laboratory work in connection with the above courses:

Laboratory Work.

It is desirable that as much laboratory work as possible should be done in connection with the courses offered above. The object of the laboratory work is to give the student experience in the use of apparatus and in its adaptation to research. Some special problem is assigned to each student; at the end of the year the results of the work are presented in writing.

FREE ELECTIVE COURSE.

Dr. Tennent offers in each year the following free elective course, open to graduate students:

Theoretical Biology.

One hour a week throughout the year.

This is an historical course dealing with the development of the theories of biology. Special attention is given to theories of evolution and heredity. The course is open to students who have had one year's training in science. A considerable amount of assigned reading is required.

COLLEGE BUILDINGS.

The college buildings are situated at Bryn Mawr, in the suburbs of Philadelphia, five miles west of the city, on the main line of the Pennsylvania Railroad. Bryn Mawr is connected with Philadelphia by frequent electric trains on the Pennsylvania Railroad and by an electric trolley running every twenty minutes. The site of the college is four hundred and twenty feet above sea level in the midst of a beautiful rolling country made accessible by good roads in every direction. The college grounds cover fifty-two acres, and include lawns, tennis-courts, and three large athletic fields.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains a general assembly room, ten lecture-rooms, and the offices of administration.

The Donors' Library, the gift of the friends, graduates, and students of the college, was begun in April, 1903, and completed in February, 1907. It is built of gray stone in the Jacobean Gothic style of architecture of the period of 1630 and forms three sides of a closed quadrangle. The main building, devoted to the library proper, faces east and is opposite and parallel to Taylor Hall at a distance of about fifty yards; the principal entrances of the two buildings face each other and are connected by a broad cement path. The east front is one hundred and seventy-four feet long and contains a three-story stack with accommodation for 88,000 volumes, and above this a large reading-room with desks for one hundred and thirty-six readers, each desk screened to a height of two feet as in the British Museum reading-room to secure privacy to the reader. No books of reference are kept in the main reading-room. The total book capacity of the library, including the seminary libraries and the books for general study which are kept in the stack, is 168,449 volumes. The building is absolutely fireproof. On the north side of the main reading-room is the Art and Archæological Seminary, containing collections of photographs, vases, and coins; on the south side are the offices of the Carola Woerishoffer Department of Social Economy. The main building contains the Stack, the New Book Room, Reference Book Room, the Carola Woerishoffer Memorial Room, the Reserved Book Room, the Christian Association Library, one lecture room, one professor's office, and three cloak rooms. The wings of the building, running symmetrically about two hundred feet in length from the north and south ends of the main building, contain fourteen seminary rooms and thirty-two professors' offices. The books needed for graduate study and research are kept in the seminary rooms and graduate lectures are held in them. The seminars are arranged as follows: Greek, Latin, English, Art and Archæology, French and Italian and Spanish, German, Semitic Languages and Philosophy and Education in the north wing; Mathematics, History, Economics, Carola Woerishoffer Department

of Social Economy and Social Research, and Psychology in the south wing, where are also offices for the librarians and cataloguers. The professors' offices for the two senior professors in each department in general adjoin the seminary rooms. There are also two general lecture-rooms, one accommodating forty-two the other twenty students. On the first floor of the south wing the department of experimental psychology has two large laboratories, one for general work and one for research. The basement of the north wing contains an experimental laboratory of the department of Education, two interview rooms, a room for the Monograph Committee of the Faculty, and fire-proof safe rooms for the records and archives of the college. The quadrangular court enclosed by the building is surrounded by cloisters and in the centre of the grass enclosure is a fountain, the gift of the class of 1901.

The library is open for students on week-days from 8 A. M. till 10 P. M. and on Sundays from 2 P. M. till 10 P. M. It is open for the faculty at all hours.

In January, 1893, the scientific departments of the college were transferred to Dalton Hall, a stone building erected by the trustees out of funds in large part contributed by the generosity of friends of the college. Dalton Hall is entirely occupied by the scientific departments, the special scientific libraries, and the consultation-rooms of the professors of science. The first floor and the basement are reserved for physics, the second floor is reserved for biology, the third floor for chemistry, and the fourth and fifth floors for geology. In December, 1893, a greenhouse designed for the use of the botanical department was added to Dalton Hall as the gift of the alumnæ and students.

The new gymnasium, erected on the site of the first gymnasium as a gift of the Athletic Association, the alumnæ and thirteen neighbours of the college, was completed in February, 1909. It is open to the students from 8 A. M. till 10 P. M., daily, contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the director and an adjoining room for the examination and record of the physical development of the students, a waiting-room, and cloak rooms. The roof, 50 feet wide by 90 feet long, is used for

gymnastic drills and students' entertainments. In the basement are dressing-rooms and shower-baths for use after exercise and a swimming-tank, seventy feet long, twenty feet wide, and from four to seven and a half feet deep, given in 1894 by the alumnae, students, and friends of the college, and well supplied with apparatus for the teaching of swimming. The gymnasium is under the charge of a director and an assistant.

On the grounds, separated from other buildings, is the 1905 Infirmary. It was opened in October, 1913, with accommodation for patients and nurses, doctors' offices and consultation rooms, diet kitchens, bathrooms, wards and private rooms, sun parlour, sun terrace, and two isolation wards.

Plans and descriptions of Taylor Hall, Donors' Library, Dalton Hall, the Gymnasium, the 1905 Infirmary and the six halls of residence, are published in Part 4 of the Bryn Mawr College Calendar and may be obtained from the Secretary and Registrar of the College.

Music-rooms with sound-proof walls and ceilings are provided in Pembroke Hall East. There is a club-room for non-resident students in Rockefeller Hall and also rooms where the students can have hairdressing and dressmaking done.

The Phebe Anna Thorne Open Air Model School of the department of Education is situated on the campus and has its own school building with out-of-door class rooms and athletic ground.

A central power-house, which was erected in 1902 as part of the gift of Mr. John D. Rockefeller, furnishes heat, electric light, and hot water for all the college buildings. Steam is conducted through tunnels underground to coils in the basement of each building. Air brought in from the outside is blown through the heaters by powerful fans and distributed to the various rooms, and the system is so adjusted as to change the air completely in every room once in every ten minutes throughout the day and night. The temperature is regulated by thermostats in the heating coils and every room in the college has separate thermostatic control. The electric lights, including electric reading-lamps for each student, are installed in the most approved manner and the voltage is kept constant so that there is no fluctuation. A constant and abundant

supply of hot water is laid on and maintained at a temperature of 180 degrees day and night in all the bathrooms and stationary wash-stands and tea pantries.

Telephone pay stations by means of which the students may be reached at any time are maintained in the library, gymnasium, infirmary and in each of the halls of residence. The Western Union Telegraph and Cable Company delivers telegrams between the hours of 6 A. M. and 12 P. M. Near the college there are a United States money-order office, two banks and an office of the American Railroad Express.

LIST OF DISSERTATIONS

PUBLISHED BY STUDENTS WHO HAVE OBTAINED THE DEGREE OF
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ian and Catalan Literature. 233 p., O. 5 pl. New York, Paris,
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* Died, 1917.

† Mrs. Joseph M. Dohan.

‡ Died, 1919.

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* Mrs. Gethmann.

† Mrs. Samuel Prioleau Ravenel.

‡ Mrs. Emmons Bryant.

- MINOR, JESSIE ELIZABETH. A Study of the Equilibrium in the Alcoholysis of Esters. 57 p., O. Easton, Pennsylvania. 1917.
- MORRIS, MARGARET SHOVE. Colonial Trade of Maryland. p. 1-157, O. Baltimore. Johns Hopkins Press. 1914.
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* Mrs. Eugene Lyman Porter.

† Mrs. William Roy Smith.

‡ Mrs. Eric Charles William Scheel Lyders.

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* Mrs. Winthrop Merton Rice.

‡ Mrs. Herman Lommel.

† Died, 1905.

§ Mrs. William Bashford Huff. Died, 1913.

- STEVENS,* NETTIE MARIA. Further Studies on the Ciliate Infusoria, Licnophora, and Boveria. 45 p. 6 pl., O. 1903.
Reprint from *Archiv für Protistenkunde*, Bd. iii.
- STITES, SARA HENRY. Economics of the Iroquois. 159+vii p., O. Lancaster, Pa., The New Era Printing Co. 1905.
• Reprint from *Bryn Mawr College Monographs, Monograph Series*, vol. 1, No. 3.
- SWEET, MARGUERITE. The Third Class of Weak Verbs in Primitive Teutonic with Special Reference to its Development in Anglo-Saxon. 49+[1] p., O. Baltimore, The Friedenwald Company. 1893.
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Reprint from the *Smith College Studies in History*, vol. v.

* Died, 1912.

† Mrs. Lewis Albert Anderson.

‡ Mrs. George Arthur Wilson.

§ Mrs. Samuel Valentine Cole.

SCHEDULE OF LECTURE

Hour	Course	Monday	Tuesday
9	ELEMENTARY	Greek (Kirk) German (Sarauw)	Greek (Kirk) German (Sarauw)
	GENERAL	Psychology (—)	Psychology (—)
	MINOR	Greek, Plato (Sanders) French Literature Div. A (Pardé) Economics, Introduction to Economics, Div. B (Franklin) Mathematics, Conies (Scott) Chemistry (Brunel) Geology (Bascom)	Greek, Homer (W. C. Wright) French Reading and Composition, Div. A (Pardé) Economics, Introduction to Economics, Div. B (Franklin) Mathematics, Trigonometry (Scott) Chemistry (Brunel) Geology (Bascom)
	MAJOR	Italian (Riddell) Renaissance Sculpture (G. G. King)	Italian (Riddell) Great Painting (—)
	ELECTIVE	Ancient Civilization (David) Educational Psychology (Arlitt) Biology, Theoretical (Tennent)	History of the U. S. from 1865 (W. R. S.) Education (—)
	GRADUATE	Industrial Supervision Field Work (Boone) 8-5 Social Economy Practicum, Divs. I, II (Deardorff, Additon) Alt. Weeks 9-5 Physics (Barnes)	Seminary in Social and Industrial Res. Field Work (Deardorff), 9-5 Mental Tests, Field Work (Rand), 9-5
10	GENERAL	English Literature, 2nd year (Donnelly)	English Literature, 2nd year (Donnelly)
	MINOR	English, 19th Century Critics (—) German Grammar (Prokosh) Spanish, Div. A (De Haan) History of Europe, Div. A (David) Ancient Architecture (Carpenter) Biology (Tennent)	English, 19th Century Critics (—) German Literature (Prokosh) Spanish Div. A (De Haan) History of Europe, Div. A (David) Hellenistic Towns (Carpenter) Biology (Tennent)
	MAJOR	Middle English Romances (Brown) Philosophy, Kant to Spencer (—)	Middle English Romances (Brown) Philosophy, Kant to Spencer (—)
	ELECTIVE	Elements of Law (Fenwick)	Modern French Literature (Schenck) Natural Resources (Bissell)
	POST-MAJOR	Physics (Huff) Chemistry (Brunel)	Physical Chemistry (Crenshaw)
	GRADUATE	Petrography (Bascom)	
11	GENERAL	English Composition, 1st year (Savage)	English Composition, 1st year (Savage)
	ELEMENTARY	French (Trotain) Italian (Sarauw)	French (Trotain) Italian (Sarauw)
	MINOR	French, Div. B (Schenek) Economics, Introduction to Economics, Div. A (M. P. Smith) Philosophy, Ethics (—) Greek Sculpture (Carpenter)	French, Div. B (Schenek) Economics, Introduction to Economics, Div. A (M. P. Smith) Philosophy, Ethics (—) Ancient Painting (Swindler)
	MAJOR	Latin, Tacitus (—) Spanish Reading (De Haan) History of the Renaissance (Gray) Psychology, Social Psychology (—) Physics (Barnes) Chemistry (Crenshaw)	Latin Literature (H. W. Wright) Spanish Literature (De Haan) History of the Renaissance (Gray) Psychology, Social Psychology (—) Physics (Barnes) Chemistry (Crenshaw)
	ELECTIVE	History of the Near East (Barton)	Greek Religion and Myths (W. C. Wright) History of the Far East (Barton) Applied Sociology (Deardorff)
	GRADUATE	Systematic Psychology (Ferree)	
12	ELEMENTARY	Spanish (Sarauw)	Spanish (Sarauw)
	MINOR	Latin, Cicero, Div. A (—) Div. B (Swindler) Italian (Riddell) History of Europe, Div. B (W. R. Smith) Psychology, Experimental (Ferree and Rand) Italian Renaissance Painting (G. G. King) Physics (Huff)	Latin, Horace, Div. A (Swindler) Div. B (H. W. Wright) Italian (Riddell) History of Europe, Div. B (W. R. Smith) Psychology, Experimental (Ferree and Rand) Art of the Far East (—) Physics (Huff)
	MAJOR	Greek, Demosthenes (Sanders) English Drama (—) French Literature (Trotain) Politics, Present Problems (Fenwick) Mathematics (Pell) Geology (Bissell) Biology (Schrader)	Greek Literature (W. C. Wright) English Drama (—) French Reading and Composition (C) Politics, Present Problems (Fenwick) Mathematics (Pell) Geology (Bissell) Biology (Schrader)
	GRADUATE	Chemistry (Brunel)	Chemistry (Brunel)

1ST SEMESTER, 1921-22.

WEDNESDAY	THURSDAY	FRIDAY
Greek (Kirk) German (Saraaw)	Greek (Kirk) German (Saraaw)	Greek (Kirk) German (Saraaw)
Psychology (—)	Psychology (—)	Psychology (—)
Greek, Plato (Sanders) French Literature, Div. A (Pardé)	Greek, Homer (W. C. Wright) French Reading and Composition Div. A (Pardé)	Greek, Sophocles (Sanders) French Literature, Div. A (Pardé)
Economics, Introduction to Economics, Div. B (Franklin)	Economics, Introduction to Economics, Div. B (Franklin)	Economics, Introduction to Economics, Div. B (Franklin)
Mathematics, Conics (Scott) Chemistry (Brunel) Geology (Bascom)	Mathematics, Trigonometry (Scott) Chemistry, Demonstration (Brunel) Geology, Demonstration (Bascom)	Mathematics, Conics (Scott) Chemistry (Brunel) Geology (Bascom)
Italian (Riddell) Renaissance Sculpture (G. G. King)	Italian (Riddell) Great Painting (—)	Italian (Riddell) Renaissance Sculpture (G. G. King)
Ancient Civilization (David) National Psychology (Arlitt)	History of the U. S. from 1865 (W. R. Smith) Education (—)	Ancient Civilization (David) Educational Psychology (Arlitt) Physical Basis of Music (Huff)
Industrial Economy Practicum, Div. III Boone t. Weeks 9-11 Industrial Relations Observations (Boone), t. Weeks, 9-5 Physics (Barnes)	Seminary in Applied Psychology Rand 9 11 Physics Journal Club (Huff and Barnes) Biology Journal Club (Tennent, Yates, Schrader)	Physics (Barnes)
English Literature, 2nd year (Donnelly)	English Literature, 2nd year (Donnelly)	English Literature, 2nd year (Donnelly)
English, 19th Century Critics (—) German Reading (Prokosch) Spanish, Div. A (De Haan) History of Europe, Div. A (David) Ancient Architecture (Carpenter)	English, 19th Century Critics (—) German Literature (Prokosch) Spanish, Div. A (De Haan) History of Europe, Div. A (David) Hellenistic Towns (Carpenter)	English, 19th Century Critics (—) German Reading (Prokosch) Spanish, Div. A (De Haan) History of Europe, Div. A (David) Ancient Architecture (Carpenter)
Biology (Tennent)	Biology, Demonstration (Tennent)	Biology (Tennent)
Middle English Romances (Brown) Philosophy, Kant to Spencer (—)	Middle English Romances (Brown) Philosophy, Kant to Spencer (—)	Middle English Romances (Brown) Philosophy, Kant to Spencer (—)
Chnogy (Bascom)	Modern French Literature (Schenck) Natural Resources (Bissell)	
Physics (Huff) Chemistry (Brunel) Laboratory in Educational Research Astro, Arlitt, 10-12	Physical Chemistry (Crenshaw) Applied Psychology (Rand), 10-12 Petrography (Bascom)	Physics (Huff) Chemistry (Brunel) Petrography (Bascom)
English Composition, 1st year (Savage)	English Composition, 1st year (Savage)	English Composition, 1st year (Savage)
French (Trotain) Italian (Saraaw)	French (Trotain) Italian (Saraaw)	French (Trotain) Italian (Saraaw)
French, Div. B (Schenck) Economics, Introduction to Div. A (M. P. Smith) Philosophy, Ethics (—) Greek Sculpture (Carpenter)	French, Div. B (Schenck) Economics, Introduction to Div. A (M. P. Smith) Philosophy, Ethics (—) Ancient Painting (Swindler)	French, Div. B (Schenck) Economics, Introduction to Div. A (M. P. Smith) Philosophy, Ethics (—) Greek Sculpture (Carpenter)
Latin, Tacitus (—) Spanish Grammar (De Haan) History of the Renaissance (Gray) Psychology, Social Psychology (—) Physics (Barnes) Chemistry (Crenshaw)	Latin Literature (H. W. Wright) Spanish Literature (De Haan) History of the Renaissance (Gray) Psychology, Social Psychology (—) Physics Laboratory (Barnes) Chemistry Laboratory (Crenshaw)	Latin, Tacitus (—) Spanish Reading (De Haan) History of the Renaissance (Gray) Psychology, Social Psychology (—) Physics Laboratory (Barnes) Chemistry Laboratory (Crenshaw)
History of the Near East (Barton) Mathematics (Scott)	Greek Religion and Myths (W. C. Wright) History of the Far East (Barton) Applied Sociology (Deardorff)	History of the Near East (Barton)
Mathematic Psychology (Ferrece)	Seminary in Industrial Supervision (Boone), 11-1	Seminary in Employment (—)
Spanish (Saraaw)	Spanish (Saraaw)	Spanish (Saraaw)
Latin, Cicero, Div. A (—) Div. B (Swindler) Italian Riddell History of Europe, Div. B (W. R. Smith) Psychology, Experimental (Ferrece and Rand) Italian Renaissance Painting (G. G. King) Physics (Huff)	Latin, Horace, Div. A (Swindler) Div. B (H. W. Wright) Italian (Riddell) History of Europe, Div. B (W. R. Smith) Psychology, Experimental (Ferrece and Rand) Art of the Far East (—) Physics, Demonstration (Huff)	Latin, Cicero, Div. A (—) Div. B (Swindler) Italian Riddell History of Europe, Div. B (W. R. Smith) Psychology, Experimental (Ferrece and Rand) Italian Renaissance Painting (G. G. King) Physics (Huff)
Greek, Aristophanes (Sanders) English Drama (—) French Literature (Trotain) Politics, Present Problems (Fenwick) Mathematics (Pell) Geology (Bissell) Biology (Schrader)	Greek Literature (W. C. Wright) English Drama (—) French Reading and Composition (Gilli) Politics, Present Problems (Fenwick) Mathematics (Pell) Geology Laboratory (Bissell) Biology (Schrader)	Greek, Demosthenes (Sanders) English Drama (—) French Literature (Trotain) Politics, Present Problems (Fenwick) Mathematics (Pell) Geology Laboratory (Bissell) Biology (Schrader)
	Chemistry Journal Club (Brunel and Crenshaw)	Social and Industrial Research Laboratory (Deardorff)

SCHEDULE OF LECTURES

Hour	Course	Monday	Tuesday
2	LABORATORY WORK	Psychology, Minor (Ferree and Rand) Educational Psychology (Arlitt) Physics, Minor (Huff) Chemistry, Major (Crenshaw) Geology, Major, Field Work (Bissell) Biology, Minor (Tennent)	Psychology, Minor (Ferree and Rand) Physics, Minor (Huff) Chemistry, Major (Crenshaw) Geology, Major (Bissell) Biology, Minor (Tennent)
	ELECTIVE	History of Education (Arlitt)	History of Education (Arlitt)
	POST-MAJOR	Greek, Æschylus (Sanders) French, Lyric Poetry (Pardé)	Greek, Æschylus (Sanders) French, Lyric Poetry (Pardé)
	GRADUATE	Economics and Politics, American Foreign Trade (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Pell) Technical and Advanced Criticism (Savage) Cynwulf and Caedmon (Brown), 2.30-4.30 Italian Seminary (Riddell), 2-4	Economics and Politics, American Foreign Trade (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Pell) Advanced Romance Philology (Gilli) Technical and Advanced Criticism (Savage) Seminary in Municipal Government (Pell) Advanced Social Statistics (Boone) Seminary in Logic and Metaphysics (Boone), 2-4 Intelligence Tests (Arlitt), 2-4
3	LABORATORY WORK	Psychology, Minor (Ferree and Rand) Educational Psychology (Arlitt) Physics, Minor (Huff) Chemistry, Major (Crenshaw) Geology, Major, Field Work (Bissell) Biology, Minor (Tennent)	Psychology, Minor (Ferree and Rand) Physics, Minor (Huff) Chemistry, Major (Crenshaw) Geology, Major (Bissell) Biology, Minor (Tennent)
	ELECTIVE	Elocution, Reading of Prose (S. A. King) Biblical Literature (Barton)	Elocution, Reading of Prose (S. A. King) Advanced Experimental Psychology (Boone) Record Keeping (Deardorff)
	POST-MAJOR	Greek, Palatine Anthology (W. C. Wright) Latin, Lucretius (H. W. Wright) Advanced French Composition (Gilli) Spanish (—) History, American Constitutional (W. R. Smith) Mathematics (Scott) Germanic Seminary (Prokosch), 3-5	Latin, Lucretius (H. W. Wright) Advanced French Composition (Gilli) Spanish (—) History, American Constitutional (W. R. Smith) Mathematics (Scott) Greek Seminary, Greek Orators (Savage), 3-4.30
	GRADUATE	Psychology Journal Club (— Ferree and Rand) Seminary in Modern Painting (G. G. King), 3-5	Seminary in English Literature (Boone), 3-4.30 French Literature (Pardé), 3-4.30 Egyptian (Barton) Seminary in Research in Labour (Boone)
4	GRADUATE	Latin Seminary, Roman Epic (H. W. Wright), 4-6 Seminary in Medieval French Literature (Gilli), 4-6 Seminary in Aramaic and Arabic (Barton) History Journal Club (Gray, W. R. Smith, David), 4-6. Alternate Weeks Economics Journal Club (M. P. Smith, Fenwick, Franklin), 4-6. Alternate Weeks	Greek Journal Club (Sanders and Wright), 4.30-6. Alternate Weeks Latin Journal Club (— and Wright), 4.30-6. Alternate Weeks Middle English Seminary (Brown) Old French Philology (Gilli), 4.30-6 Semitic Seminary (Barton) Seminary in European History (Gray) Seminary in Politics (Fenwick), 4-6
	GRADUATE	Social Treatment (Additon), 4-6 Psychology Seminary (—), 4-6 Seminary in Zoology (Tennent), 4.30-6	Seminary in Social Psychology (—) Mathematical Journal Club (Scott) Alternate Weeks Seminary in Physiology (Yates), 4-6
5	GRADUATE	Introduction to Germanic Philology (Prokosch) Spanish Seminary (—)	Comparative Semitic Grammar (Elliott)

FIRST SEMESTER, 1921-22 (continued).

WEDNESDAY	THURSDAY	FRIDAY
<p>Education (—)</p> <p>Greek, 4th Century Critics (Sanders)</p> <p>Latin, Composition (H. W. Wright)</p> <p>French, Masterpieces of French Literature (Pardé)</p> <p>Economics and Politics, American Foreign Trade (M. P. Smith)</p> <p>Spanish Painting (G. G. King)</p> <p>Mathematics (Pell)</p> <p>Biology, Embryology (Tennent)</p> <p>Advanced Old French Philology (Gilli)</p> <p>Archæology Seminary (Carpenter), 2-4</p> <p>Family as a Social Institution (Deardorff), 4-6</p> <p>Biology Journal Club (Bascom and Bissell), 4.15-4.15. Alternate Weeks</p>	<p>Physics, Major (Barnes)</p> <p>Chemistry, Minor (Brunel)</p> <p>Geology, Minor (Bascom)</p> <p>Biology, Major (Schrader)</p> <p>Criticism (Crandall)</p> <p>Education (—)</p> <p>French Short Story (Schenck)</p> <p>Economics and Politics, International Law (Fenwick)</p> <p>Seminary in European History (Gray)</p> <p>Seminary in Aegean Archaeology (Swindler), 2-4</p>	<p>Physics, Major (Barnes)</p> <p>Chemistry, Minor (Brunel)</p> <p>Geology, Minor (Bascom)</p> <p>Biology, Major (Schrader)</p> <p>Education (—)</p> <p>French Short Story (Schenck)</p> <p>Economics and Politics, International Law (Fenwick)</p> <p>Greek Seminary, Homeric Question (W. C. Wright), 2-4</p> <p>Romance Philology (Gilli)</p> <p>Seminary in Labour Organization (Boone), 2-4</p>
<p>Documentation (Crandall)</p> <p>Medical Literature (Barton)</p> <p>Greek, Palatine Anthology (W. C. Wright)</p> <p>Latin, Lucretius (H. W. Wright)</p> <p>Historical French Grammar (Gilli)</p> <p>Spanish (—)</p> <p>England under the Tudors (Gray)</p> <p>Biology, Physiology (Yates)</p> <p>Seminary in Politics (Fenwick)</p> <p>Seminary in Mathematics Scott', 3.30 5.30</p>	<p>Physics, Major (Barnes)</p> <p>Chemistry, Minor (Brunel)</p> <p>Geology, Minor (Bascom)</p> <p>Biology, Major (Schrader)</p> <p>Daily Themes (Crandall)</p> <p>Elements of Statistics (Boone)</p> <p>Roman Satire (—)</p> <p>Spanish (De Haan)</p> <p>England under the Tudors (Gray)</p> <p>Greek Seminary, Greek Orators (Sanders), 3-4.30</p> <p>Seminary in English Literature (—), 3-4.30</p> <p>French Literature (Pardé), 3-4.30</p> <p>Anglo-Norman (Gilli)</p> <p>Philosophical Journal Club (—), 3-4.30</p> <p>Seminary in Educational Psychology (Castro), 3-5</p> <p>Mathematics Seminary (Pell), 3.30-5.30</p>	<p>Physics, Major (Barnes)</p> <p>Chemistry, Minor (Brunel)</p> <p>Geology, Minor (Bascom)</p> <p>Biology, Major (Schrader)</p> <p>Roman Satire (—)</p> <p>Spanish (De Haan)</p> <p>England under the Tudors (Gray)</p> <p>English Journal Club (Brown, Donnelly, Savage, Crandall), 3-4.30. Alternate Weeks</p> <p>Romance Languages Journal Club (Schenck, Gilli, Pardé, Riddell, De Haan, and —), 3-4.30. Alternate Weeks</p> <p>Archæological Journal Club (Carpenter, Swindler), 3-4.30. Alternate Weeks</p>
<p>Latin Seminary, Latin Comedy (—), 3.30-6</p> <p>Seminary in English Composition (Crandall), 4-6</p> <p>Seminary in Modern French Literature (Schenck), 4-6</p> <p>Spanish Seminary (—), 4-6</p> <p>Seminary in Oriental Archaeology (Barton)</p> <p>Seminary in American History (W. R. Smith), 4-6</p> <p>Seminary in Industrial Organization (—), 4-6</p> <p>Seminary in History of Philosophy (—), 4-6</p> <p>Seminary in Zoology (Tennent), 4.30-6</p> <p>Gothic (Prokosch)</p>	<p>Middle English Seminary (Brown), 4.30-6</p> <p>Seminary in German Literature (Prokosch), 4-6</p> <p>Old French Philology (Gilli), 4.30-6</p> <p>Semantic Seminary (Barton)</p> <p>Historical Bibliography (David)</p> <p>Seminary in Municipal Government (Franklin), 4-6</p> <p>Social and Industrial Research (Deardorff), 4-6</p> <p>Education Journal Club (— and Arlitt), 4.30-6</p> <p>Journal Club in History of Art (G. G. King), 4.30-6. Alternate Weeks</p> <p>Seminary in Physiology (Yates), 4.30-6</p> <p>Ethiopic (Barton)</p>	<p>Latin Seminary, Latin Comedy (—) 4.30-6</p> <p>Seminary in History of French Revolution (David), 4-6</p> <p>Seminary in Economics (M. P. Smith), 4-6</p> <p>Community Organization (White), 4-6. Alternate Weeks.</p> <p>Community Art (—), 4-6. Alternate Weeks</p> <p>Seminary in Education (—), 4-6</p> <p>Seminary in Petrology (Bascom), 4.30-6</p> <p>Gothic (Prokosch)</p>

Hour	Course	Monday	Tuesday
9	ELEMENTARY	Greek (Kirk) German (Saraaw)	Greek (Kirk) German (Saraaw)
	GENERAL	Philosophy (—)	Philosophy (—)
	MINOR	Greek, Euripides (Sanders) French, 19th Century Literature, Div. A (Trotain) Introduction to Government and Politics, Div. B (Fenwick) Mathematics, Calculus (Pell) Chemistry (Crenshaw) Geology (Bissell)	Greek, Homer (W. C. Wright) French Reading and Composition, Div. A (Trotain) Introduction to Government and Po Div. B (Fenwick) Mathematics, Algebra (Pell) Chemistry Laboratory (Crenshaw) Geology Laboratory (Bissell)
	MAJOR	Italian (Riddell) Renaissance Architecture (—)	Italian (Riddell) Modern Painting G. G. King)
	ELECTIVE	Ancient Civilization (David) Educational Psychology (Arlitt) Biology, Theoretical (Tennent)	History of the U. S. from 1865 (W. R. S.) Education (—)
	GRADUATE	Industrial Supervision Field Work (Boone), 8-5 Social Economy Practicum, Divs. I, II (Deardorff, Additon), Alt. Weeks, 9-5 Physics (Barnes)	Seminary in Social and Industrial Res Field Work (Deardorff), 9-5 Mental Tests, Field Work (Rand), 9-
10	GENERAL	English Composition, 2nd year (Savage)	English Composition, 2nd year (Savage)
	MINOR	English Poetry (Donnelly) German Grammar (Prokosch) Spanish, Div. A (—) History of Europe from 1789, Div. A (Gray) Ancient Architecture (Carpenter) Biology Laboratory (Schrader)	English Poetry (Donnelly) German Literature (Prokosch) Spanish, Div. A (—) History of Europe from 1789, Div. A Ancient Rome (Swindler) Biology Laboratory (Schrader)
	MAJOR	Recent Philosophical Tendencies (—)	Recent Philosophical Tendencies (—)
	ELECTIVE	Elements of Law (Fenwick)	Modern French Literature (Schenck) Natural Resources (Bissell)
	POST-MAJOR	Physics (Huff) Chemistry (Brunel)	Physical Chemistry (Crenshaw)
	GRADUATE	Petrography (Bascom)	
11	GENERAL	English Literature, 1st year (Donnelly)	English Literature, 1st year (Donnel)
	ELEMENTARY	French (Trotain) Italian (Saraaw) French, Div. B (Pardé) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (—) Greek Sculpture (Carpenter)	French (Trotain) Italian (Saraaw) French, Div. B (Pardé) Introduction to Government and Po Div. A (Franklin) History of Philosophy (—) Archæology, Minor Arts (Carpenter)
	MINOR	Latin Comedy (—) Spanish Reading (—) History, British Imperialism (W. R. Smith) Psychology, Applied (Rand) Physics (Huff) Chemistry (Brunel)	Latin Literature (H. W. Wright) Spanish Literature (—) History, British Imperialism (W. R. S.) Psychology, Applied (Rand) Physics (Huff) Chemistry (Brunel)
	MAJOR	History of the Near East (Barton)	Literary Geography (W. C. Wright) History of the Far East (Barton) Applied Sociology (Deardorff)
	ELECTIVE		
	GRADUATE	Systematic Psychology (Ferree)	
12	ELEMENTARY	Spanish (Saraaw)	Spanish (Saraaw)
	MINOR	Latin, Terence, Div. B (—) Div. A (Swindler) English, Mid. Eng. Poetry and Chaucer (Brown) Italian (Riddell) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (—) Italian Renaissance Painting (G. G. King) Physics (Barnes)	Latin, Horace, Div. A (H. W. Wrig) Div. B (Swindler) English, Mid. Eng. Poetry and Cha (Brown) Italian Riddell History of Europe from 1789, Div. B Psychology of Instinct and Emotion Art of the Far East (—) Physics Laboratory (Barnes)
	MAJOR	Greek, Thucydides (Sanders) English Literature, Dryden to Chaucer (—) French Literature (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology (Bascom) Biology (Yates)	Greek Literature (W. C. Wright) English Literature, Dryden to Cha (—) French, Reading and Composition Econ., Hist. of Econ. Thought (M. P. S.) Mathematics (Scott) Geology (Bascom) Biology (Yates)
	GRADUATE	Chemistry (Brunel)	Chemistry (Brunel)

SECOND SEMESTER, 1921-22.

WEDNESDAY	THURSDAY	FRIDAY
Greek (Kirk) German (Saraau)	Greek (Kirk) German (Saraau)	Greek (Kirk) German (Saraau)
Philosophy (—)	Philosophy (—)	Philosophy (—)
Greek, Euripides (Sanders) French, 19th Century Literature, Div. A (Trotain)	Greek, Homer (W. C. Wright) French, Reading and Composition, Div. A (Trotain)	Greek, Herodotus (Sanders) French, 19th Century Literature, Div. A (Trotain)
Introduction to Government and Politics, Div. B (Fenwick) Mathematics, Calculus (Pell) Chemistry (Crenshaw) Geology (Bissell)	Introduction to Government and Politics Div. B (Fenwick) Mathematics, Algebra (Pell) Chemistry, Demonstration (Crenshaw) Geology, Demonstration (Bissell)	Introduction to Government and Politics, Div. B (Fenwick) Mathematics, Calculus (Pell) Chemistry (Crenshaw) Geology (Bissell)
Italian (Riddell) Renaissance Architecture (—)	Italian (Riddell) Modern Painting (G. G. King)	Italian (Riddell) Renaissance Architecture (—)
Ancient Civilization (David) Educational Psychology (Arlitt)	History of the U. S. from 1865 (W. R. Smith) Education (—)	Ancient Civilization (David) Educational Psychology (Arlitt) Physical Basis of Music (Huff)
Social Economy Practicum, Div. III (Boone), Alt. Weeks, 9-11 Industrial Relations Observations (Boone), Alt. Weeks, 9-5 Physics (Barnes)	Seminary in Applied Psychology (Rand), 9-11 Physics Journal Club (Huff and Barnes) Biology Journal Club (Tennent, Yates and Schrader)	Physics (Barnes)
English Composition, 2nd year (Savage)	English Composition, 2nd year (Savage)	English Composition, 2nd year (Savage)
English Poetry (Donnelly) German Reading (Prokosch) Spanish, Div. A (—) History of Europe from 1789, Div. A (Gray) Ancient Architecture (Carpenter) Biology (Schrader)	English Poetry (Donnelly) German Literature (Prokosch) Spanish, Div. A (—) History of Europe from 1789, Div. A (Gray) Ancient Rome (Swindler) Biology (Schrader)	English Poetry (Donnelly) German Reading (Prokosch) Spanish Div. A (—) History of Europe from 1789, Div. A (Gray) Ancient Architecture (Carpenter) Biology (Schrader)
Recent Philosophical Tendencies (—)	Recent Philosophical Tendencies (—)	Recent Philosophical Tendencies (—)
Modern French Literature (Schenck) Natural Resources (Bissell)	Modern French Literature (Schenck) Natural Resources (Bissell)	
Physical Chemistry (Crenshaw)	Physical Chemistry (Crenshaw)	Physics (Huff) Chemistry (Brunel)
Petrography (Bascom)		Petrography (Bascom)
English Literature, 1st year (Donnelly)	English Literature, 1st year (Donnelly)	English Literature, 1st year (Donnelly)
French (Trotain) Italian (Saraau) French, Div. B (Pardé) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (—) Greek Sculpture (Carpenter)	French (Trotain) Italian (Saraau) French, Div. B (Pardé) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (—) Archæology, Minor Arts (Carpenter)	French (Trotain) Italian (Saraau) French, Div. B (Pardé) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (—) Greek Sculpture (Carpenter)
Latin Comedy (—) Spanish Grammar (—) History, British Imperialism (W. R. Smith) Psychology, Applied (Rand) Physics (Huff) Chemistry (Brunel)	Latin Literature (H. W. Wright) Spanish Literature (—) History, British Imperialism (W. R. Smith) Psychology Applied (Rand) Physics Laboratory (Huff) Chemistry Laboratory (Brunel)	Latin Comedy (—) Spanish Reading (—) History, British Imperialism (W. R. Smith) Psychology, Applied (Rand) Physics Laboratory (Huff) Chemistry Laboratory (Brunel)
History of the Near East (Barton) Mathematics (Scott)	Literary Geography (W. C. Wright) History of the Far East (Barton) Applied Sociology (Deardorff)	History of the Near East (Barton)
Seminary in Industrial Supervision (Boone) 11-1	Seminary in Industrial Supervision (Boone) 11-1	
Systematic Psychology (Ferree)		Systematic Psychology (Ferree)
Spanish (Saraau)	Spanish (Saraau)	Spanish (Saraau)
Latin, Terence, Div. B (Wheeler) Div. A (Swindler) English, Mid. Eng. Poetry and Chaucer (Brown) Italian (Riddell) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (—) Italian Renaissance Painting (G. G. King) Physics (Barnes)	Latin, Horace, Div. A (H. W. Wright) Div. B (Swindler) English, Mid. Eng. Poetry and Chaucer (Brown) Italian (Riddell) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (—) Art of the Far East (—) Physics, Demonstration (Barnes)	Latin, Terence, Div. B (Wheeler) Div. A (Swindler) English, Mid. Eng. Poetry and Chaucer (Brown) Italian (Riddell) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (—) Italian Renaissance Painting (G. G. King) Physics (Barnes)
Greek, Sophocles (Sanders) English Literature, Dryden to Chaucer (—) French Literature (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology (Bascom) Biology (Yates)	Greek Literature (W. C. Wright) English Literature, Dryden to Chaucer (—) French, Reading and Composition (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology Laboratory (Bascom) Biology Laboratory (Yates)	Greek, Thucydides (Sanders) English Literature, Dryden to Chaucer (—) French Literature (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology Laboratory (Bascom) Biology Laboratory (Yates)
Social and Industrial Research Laboratory (Deardorff)	Chemistry Journal Club (Brunel and Crenshaw)	Social and Industrial Research Laboratory (Deardorff)

SCHEDULE OF LECTURES

Hour	Course	Monday	Tuesday
2	LABORATORY WORK	Educational Psychology (Arlitt) Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major, Field Work (Bascom) Biology, Minor (Schrader)	Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major (Bascom) Biology, Minor (Schrader)
	ELECTIVE	Methods of Teaching Composition (Savage) History of Education (Arlitt)	Methods of Teaching Composition (Savage) History of Education (Arlitt)
	POST-MAJOR	Greek, Pindar (Sanders) French (Pardé)	Greek, Pindar (Sanders) French (Pardé)
	GRADUATE	Economics and Politics, American Foreign Trade (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Pell) Cynewulf and Caedmon (Brown), 2.30-4.30 Italian Seminary (Riddell), 2-4	Economics and Politics, American Foreign Trade (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Pell) Advanced Romance Philology (Gilli) Seminary in Municipal Government (Flin) Advanced Social Statistics (Boone) Seminary in Logic and Metaphysics (—) Intelligence Tests (Arlitt) 2-4
3	LABORATORY WORK	Educational Psychology (Arlitt) Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major, Field Work (Bascom) Biology, Minor (Schrader)	Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major (Bascom) Biology, Minor (Schrader)
	ELECTIVE	Elocution, Reading of Prose (S. A. King) Biblical Literature (Barton)	Elocution, Reading of Prose (S. A. King) Advanced Experimental Psychology (—) Record Keeping (Deardorff)
	POST-MAJOR	Greek, Sophocles <i>Ajax</i> (W. C. Wright) Latin, Roman Prose of the Empire (H. W. Wright) Advanced French Composition (Gilli) Spanish (—) History, American Constitutional (W. R. Smith) Mathematics (Scott)	Latin, Roman Prose of the Empire (Wright) Advanced French Composition (Gilli) Spanish (—) History, American Constitutional (Smith) Mathematics (Scott)
	GRADUATE	Germanic Seminary (Prokosch), 3-5 Psychology Journal Club (— Ferree and Rand) Seminary in Modern Painting (G. G. King), 3-5	Greek Seminary, Greek Orators (Sanders), 3-4.30 Seminary in English Literature, 3-4.30 French Literature (Pardé), 3-4.30 Egyptian (Barton) Seminary in Research in Labour (Boone)
4	GRADUATE	Latin Seminary, Roman Epic (H. W. Wright) Seminary in Mediaeval French Literature (Gilli), 4-6 Seminary in Aramaic and Arabic (Barton) History Journal Club (Gray, W. R. Smith, and David), 4-6. Alternate Weeks Economics Journal Club (Marion P. Smith, Fenwick, Franklin), 4-6. Alternate Weeks Social Treatment (Additon), 4-6 Psychology Seminary (—), 4-6	Greek Journal Club (Sanders and Wright), 4.30-6. Alternate Weeks Latin Journal Club (— and Wright), 4.30-6. Alternate Weeks Middle English Seminary (Brown), Old French Philology (Gilli) 4.30-6 Semitic Seminary (Barton) Seminary in European History (Gray) Seminary in Politics (Fenwick), 4-6 Seminary in Social Education Psychology (—), 4-6 Mathematical Journal Club (Scott and —), Alternate Weeks Seminary in Social and Political Psychology (—), 4-6
	GRADUATE	Seminary in Zoology (Tennent), 4.30-6	Seminary in Physiology (Yates), 4-6
5	GRADUATE	Introduction to Germanic Philology (Prokosch) Spanish Seminary (—)	Comparative Semitic Grammar (Barnes)

SECOND SEMESTER, 1921-22 (continued).

WEDNESDAY	THURSDAY	FRIDAY
<p>Chemistry, Major (Brunel)</p> <p>Education (—)</p> <p>Æsk, Sophocles (Sanders)</p> <p>Latin Composition (H. W. Wright)</p> <p>French Masterpieces of French Literature (Pardé)</p> <p>Economics and Politics, American Foreign Trade (M. P. Smith)</p> <p>English Painting (G. G. King)</p> <p>Mathematics (Pell)</p> <p>Biology, Embryology (Tennent)</p> <p>Advanced Old French Philology (Gilli)</p> <p>Philology Seminary (Carpenter), 2-4</p> <p>July as a Social Institution (Deardorff), 4</p> <p>Philology Journal Club (Bascom and Bissell), 15-4.15. Alternate Weeks</p>	<p>Psychology, Major (Rand)</p> <p>Physics, Major (Huff)</p> <p>Chemistry, Minor (Crenshaw)</p> <p>Geology, Minor (Bissell)</p> <p>Biology, Major (Yates)</p> <p>Criticism (Crandall)</p> <p>Education (—)</p> <p>French Short Story (Schenck)</p> <p>Economics and Politics, International Law (Fenwick)</p> <p>Seminary in European History (Gray)</p> <p>Ancient Painting (Swindler)</p>	<p>Psychology, Major (Rand)</p> <p>Physics, Major (Huff)</p> <p>Chemistry, Minor (Crenshaw)</p> <p>Geology, Minor (Bissell)</p> <p>Biology, Major (Yates)</p> <p>Education (—)</p> <p>French Short Story (Schenck)</p> <p>Economics and Politics, International Law (Fenwick)</p> <p>Greek Seminary, Homeric Question (W. C. Wright), 2-4</p> <p>Romance Philology (Gilli)</p> <p>Seminary in Labour Organization (Boone), 2-4</p>
<p>Chemistry, Major (Brunel)</p> <p>Documentation (Crandall)</p> <p>Classical Literature (Barton)</p> <p>Æsk, Sophocles <i>Ajax</i> (W. C. Wright)</p> <p>Latin, Roman Prose of the Empire (H. W. Wright)</p> <p>Historical French Grammar (Gilli)</p> <p>Spanish (—)</p> <p>England under the Tudors (Gray)</p> <p>Philology, Physiology (Yates)</p> <p>Seminary in Politics (Fenwick)</p> <p>Mathematics Seminary (Scott), 3.30-5.30</p>	<p>Psychology, Major (Rand)</p> <p>Physics, Major (Huff)</p> <p>Chemistry, Minor (Crenshaw)</p> <p>Geology, Minor (Bissell)</p> <p>Biology, Major (Yates)</p> <p>Elements of Statistics (Boone)</p> <p>Roman Satire (—)</p> <p>Spanish (De Haan)</p> <p>England under the Tudors (Gray)</p> <p>Greek Seminary, Greek Orators (Sanders), 3-4.30</p> <p>Seminary in English Literature (—), 3-4.30</p> <p>French Literature (Pardé), 3-4.30</p> <p>Anglo-Norman (Gilli)</p> <p>Philosophical Journal Club (—), 3-4.30</p> <p>Mathematics Seminary (Pell) 3.30-5.30</p> <p>Seminary in Educational Psychology (—), 3-5</p>	<p>Psychology, Major (Rand)</p> <p>Physics, Major (Huff)</p> <p>Chemistry, Minor (Crenshaw)</p> <p>Geology, Minor (Bissell)</p> <p>Biology, Major (Yates)</p> <p>Roman Satire (—)</p> <p>Spanish (De Haan)</p> <p>England under the Tudors (Gray)</p> <p>English Journal Club (Brown, Donnelly, Savage, Crandall and —), 3-4.30. Alternate Weeks</p> <p>Romance Languages Journal Club (Schenck, Gilli, Pardé, Riddell, De Haan and —), 3-4.30. Alternate Weeks</p> <p>Archæological Journal Club (Carpenter and Swindler), 3-4.30. Alternate Weeks</p>
<p>Latin Seminary, Latin Comedy (—), 4.30-6</p> <p>Seminary in English Composition (Crandall), 4-6</p> <p>Seminary in Modern French Literature (Schenck), 4-6</p> <p>Spanish Seminary (—)</p> <p>Seminary in Oriental Archæology (Barton)</p> <p>Seminary in American History (W. R. Smith), 4-6</p> <p>Seminary in Industrial Organization (—), 4-6</p> <p>Seminary in History of Philosophy (—)</p> <p>Seminary in Zoology (Tennent), 4.30-6</p> <p>Gothic (Prokosh)</p>	<p>Middle English Seminary (Brown), 4.30-6</p> <p>Seminary in German Literature (Prokosh), 4-6</p> <p>Old French Philology (Gilli), 4.30-6</p> <p>Semantic Seminary (Barton)</p> <p>Historical Bibliography (David)</p> <p>Seminary in Municipal Government (Franklin), 4-6</p> <p>Social and Industrial Research (Deardorff), 4-6</p> <p>Journal Club in History of Art (G. G. King), 4.30-6. Alternate Weeks</p> <p>Education Journal Club (— and Arlitt), 4.30-6</p> <p>Seminary in Physiology (Yates), 4.30-6</p> <p>Ethiopic (Barton)</p>	<p>Latin Seminary, Latin Comedy (—), 4.30-6</p> <p>Seminary in History of French Revolution (David), 4-6</p> <p>Seminary in Economics (M. P. Smith), 4-6</p> <p>Seminary in Petrology (Bascom), 4.30-6</p> <p>Community Organization (White), 4-6. Alternate Weeks</p> <p>Community Art (—), 4-6. Alternate Weeks</p> <p>Seminary in Principles and Methods of Education (—), 4-6</p> <p>Gothic (Prokosh)</p>

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BRYN MAWR COLLEGE

CALENDAR

GRADUATE COURSES

1922



BRYN MAWR, PENNSYLVANIA.
Published by Bryn Mawr College,
March, 1922

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Philadelphia, Pa.

BRYN MAWR COLLEGE CALENDAR.

1922.

PART 1. Register of Alumnæ and Former Students.

PART 2. Graduate Courses.

PART 3. Undergraduate and Graduate Courses.

PART 4. Academic Buildings and Halls of Residence,
Plans and Descriptions.

BRYN MAWR COLLEGE.

COLLEGE CALENDAR

1922.														1923.														1924.													
JANUARY							JULY							JANUARY							JULY							JANUARY													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S							
1	2	3	4	5	6	7	2	3	4	5	6	7	8	1	2	3	4	5	6	7	6	7	8	9	10	11	12	13	14	15	16	17	18	19							
8	9	10	11	12	13	14	9	10	11	12	13	14	15	7	8	9	10	11	12	13	8	9	10	11	12	13	14	15	16	17	18	19	20								
15	16	17	18	19	20	21	16	17	18	19	20	21	22	14	15	16	17	18	19	20	15	16	17	18	19	20	21	22	23	24	25	26	27								
22	23	24	25	26	27	28	23	24	25	26	27	28	29	21	22	23	24	25	26	27	22	23	24	25	26	27	28	29	30	31											
29	30	31					30	31						28	29	30	31				29	30	31					27	28	29	30	31									
FEBRUARY							AUGUST							FEBRUARY							AUGUST							FEBRUARY													
5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10	5	6	7	8	9	10	11	10	11	12	13	14	15								
12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17	12	13	14	15	16	17	18	17	18	19	20	21	22								
19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24	19	20	21	22	23	24	25	24	25	26	27	28	29								
26	27	28					27	28	29	30	31			25	26	27	28	29	30	31	26	27	28	29	30	31		24	25	26	27	28	29								
MARCH							SEPTEMBER							MARCH							SEPTEMBER							MARCH													
5	6	7	8	9	10	11	3	4	5	6	7	8	9	4	5	6	7	8	9	10	2	3	4	5	6	7	8	2	3	4	5	6	7								
12	13	14	15	16	17	18	10	11	12	13	14	15	16	11	12	13	14	15	16	17	9	10	11	12	13	14	15	9	10	11	12	13	14								
19	20	21	22	23	24	25	17	18	19	20	21	22	23	18	19	20	21	22	23	24	16	17	18	19	20	21	22	16	17	18	19	20	21								
26	27	28	29	30	31		24	25	26	27	28	29	30	25	26	27	28	29	30	31	23	24	25	26	27	28	29	30	31												
APRIL							OCTOBER							APRIL							OCTOBER							APRIL													
2	3	4	5	6	7	8	1	2	3	4	5	6	7	1	2	3	4	5	6	7	7	8	9	10	11	12	13	6	7	8	9	10	11								
9	10	11	12	13	14	15	8	9	10	11	12	13	14	8	9	10	11	12	13	14	14	15	16	17	18	19	20	11	12	13	14	15	16								
16	17	18	19	20	21	22	15	16	17	18	19	20	21	15	16	17	18	19	20	21	21	22	23	24	25	26	27	18	19	20	21	22	23								
23	24	25	26	27	28	29	22	23	24	25	26	27	28	22	23	24	25	26	27	28	28	29	30	31				27	28	29	30										
30							29	30	31					29	30																										
MAY							NOVEMBER							MAY							NOVEMBER							MAY													
7	8	9	10	11	12	13	5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10	4	5	6	7	8	9								
14	15	16	17	18	19	20	12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17	11	12	13	14	15	16								
21	22	23	24	25	26	27	19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24	18	19	20	21	22	23								
28	29	30	31				26	27	28	29	30			27	28	29	30	31			25	26	27	28	29	30		25	26	27	28	29	30								
JUNE							DECEMBER							JUNE							DECEMBER							JUNE													
4	5	6	7	8	9	10	3	4	5	6	7	8	9	2	3	4	5	6	7	8	1	2	3	4	5	6	7	1	2	3	4	5	6								
11	12	13	14	15	16	17	10	11	12	13	14	15	16	9	10	11	12	13	14	15	15	16	17	18	19	20	15	16	17	18	19	20	21								
18	19	20	21	22	23	24	17	18	19	20	21	22	23	16	17	18	19	20	21	22	22	23	24	25	26	27	22	23	24	25	26	27	28								
25	26	27	28	29	30		24	25	26	27	28	29	30	23	24	25	26	27	28	29	30	31					29	30													

The academic year will close with the Conferring of Degrees at eleven o'clock, on June 7, 1923.

ACADEMIC YEAR, 1922-23.

September 25th.	Matriculation examinations begin.
October 2nd.	Registration of students. Halls of Residence open for students at three p. m.
October 3rd.	Registration of students. Matriculation examinations end.
October 4th.	The work of the thirty-eighth academic year begins at a quarter to nine o'clock.
October 5th.	Examinations for advanced standing begin.
October 7th.	Language examinations for all undergraduates.
October 14th.	Senior examination in French. Language examinations for Juniors. M.A. Language examinations.
October 21st.	Senior examination in German.
October 26th.	Examinations for advanced standing end.
November 20th.	Collegiate and matriculation condition examinations begin.
November 25th.	M.A. Language examinations.
November 28th.	Collegiate and matriculation condition examinations end.
November 29th.	Thanksgiving vacation begins at one o'clock.
December 4th.	Thanksgiving vacation ends at nine o'clock.
December 9th.	Senior examination in French. Ph.D. Language examinations.
December 16th.	Senior examination in German.
December 21st.	Christmas vacation begins at one o'clock.
January 6th.	Christmas vacation ends at nine o'clock.
January 17th.	Matriculation examinations begin.
January 23rd.	Ph.D. Language examinations. Matriculation examinations end.
January 24th.	Half-yearly collegiate examinations begin.
February 3rd.	Collegiate examinations end. Annual meeting of the Alumnæ Association.
February 5th.	Vacation.
February 6th.	Vacation.
February 7th.	The work of the second semester begins at a quarter to nine o'clock.
February 8th.	Examinations for advanced standing begin.
March 1st.	Examinations for advanced standing end.
March 10th.	Senior examination in French.
March 16th.	Announcement of European Fellowships.
March 17th.	Senior examination in German.
March 19th.	Collegiate and matriculation condition examinations begin.
March 21st.	Mid-semester examination in matriculation Greek.
March 27th.	Collegiate and matriculation condition examinations end.

March 28th.	Easter vacation begins at one o'clock.
April 5th.	Easter vacation ends at nine o'clock.
April 7th.	Ph.D. Language examinations.
May 12th.	Senior examinations in French and German.
May 22nd.	Vacation.
May 23rd.	Collegiate examinations begin.
May 29th.	Matriculation examinations begin.
June 2nd.	Collegiate examinations end.
June 5th.	Matriculation examinations end.
June 7th.	Conferring of degrees and close of thirty-eighth academic year.

ACADEMIC YEAR, 1923-24.

September 24th.	Matriculation examinations begin.
October 1st.	Registration of students. Halls of Residence open for students at three p. m.
October 2nd.	Registration of students.
	Matriculation examinations end.
October 3rd.	The work of the thirty-ninth academic year begins at a quarter to nine o'clock.
October 4th.	Examinations for advanced standing begin.
October 6th.	Language examinations for all undergraduates.
October 13th.	Senior examination in French.
	Language examinations for Juniors.
	M.A. Language examinations.
October 20th.	Senior examination in German.
October 25th.	Examinations for advanced standing end.
November 19th.	Collegiate and matriculation condition examinations begin.
November 24th.	M.A. Language examinations.
November 27th.	Collegiate and matriculation condition examinations end.
November 28th.	Thanksgiving vacation begins at one o'clock.
December 3rd.	Thanksgiving vacation ends at nine o'clock.
December 8th.	Senior examination in French.
	Ph.D. Language examinations.
December 15th.	Senior examination in German.
December 20th.	Christmas vacation begins at one o'clock.
January 5th.	Christmas vacation ends at nine o'clock. Lectures given on Saturday.
January 16th.	Matriculation examinations begin.
January 22nd.	Matriculation examinations end.
	Ph.D. Language examinations.
January 23rd.	Half-yearly collegiate examinations begin.
February 2nd.	Collegiate examinations end.
	Annual meeting of the Alumni Association.

February 4th.	Vacation.
February 5th.	Vacation.
February 6th.	The work of the second semester begins at a quarter to nine o'clock.
February 7th.	Examinations for advanced standing begin.
February 27th.	Examinations for advanced standing end.
March 8th.	Senior examination in French.
March 15th.	Senior examination in German.
March 17th.	Collegiate and matriculation condition examinations begin.
March 19th.	Mid-semester examination in matriculation Greek.
March 20th.	Announcement of European Fellowships.
March 25th.	Collegiate and matriculation condition examinations end.
March 26th.	Spring vacation begins at one o'clock.
April 2nd.	Spring vacation ends at nine o'clock.
April 5th.	Ph.D. Language examinations.
April 18th.	Good Friday. Vacation.
May 10th.	Senior examinations in French and German.
May 20th.	Vacation.
May 21st.	Collegiate examinations begin.
May 27th.	Matriculation examinations begin.
May 31st.	Collegiate examinations end.
June 3rd.	Matriculation examinations end.
June 5th.	Conferring of degrees and close of thirty-ninth academic year.

OFFICERS OF ADMINISTRATION.

ACADEMIC YEAR, 1921-22.

President,

M. CAREY THOMAS, PH.D., LL.D., L.H.D.

Office: Taylor Hall.

Dean of the College,

HILDA WORTHINGTON SMITH, M.A.

Office: Taylor Hall.

Recording Dean and Assistant to the President,

ISABEL MADDISON, B.Sc., PH.D.

Office: Taylor Hall.

Secretary and Registrar of the College,

EDITH ORLADY, A.B. Office: Taylor Hall.

Wardens of the Halls of Residence.

ALYS SMITH RUSSELL, A.B., Pembroke Hall.

FRIEDRIKA MARGRETHA HEYL, A.B., Radnor Hall.

MARY SUMMERFIELD GARDINER, A.B., Denbigh Hall.

AGNES DOROTHY SHIPLEY, M.A., Pembroke West.

HELEN JUANITA BARRETT, A.B., Rockefeller Hall.

THEODORA BATES, M.A., Merion Hall.

Comptroller,

SANDY LEE HURST. Office: Taylor Hall.

Superintendent,

JOHN J. FOLEY. Office: Rockefeller Hall.

Librarian,

LOIS ANTOINETTE REED, A.B., B.L.S. Office: The Library.

Director of Athletics and Gymnastics and Supervisor of Health,

CONSTANCE M. K. APPLEBEE. Office: The Gymnasium.

Physician-in-Chief,

THOMAS F. BRANSON, M.D. Rosemont, Pa.

*Assistant Resident Physician,*MABEL HATTERSLEY PEARSON, M.D., 1905 Infirmary, Bryn Mawr. Office:
The Infirmary, Bryn Mawr College.*Examining Oculist,*

HELEN MURPHY, M.D. 1408 Spruce Street, Philadelphia.

ACADEMIC APPOINTMENTS.

ACADEMIC YEAR, 1921-22.

M. CAREY THOMAS, PH.D., LL.D., LL.H.D., *President of the College and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78; University of Leipsic, 1879-82; Ph.D., University of Zurich, 1882. Student in the Sorbonne and Collège de France, 1883; Dean of the Faculty of Bryn Mawr College and Professor of English, 1885-94.

HILDA WORTHINGTON SMITH, M.A., *Dean of the College.*

A.B., Bryn Mawr College, 1910, and A.M., 1911. Graduate Student, Bryn Mawr College, 1910-11; New York School of Philanthropy, 1912-13, 1914-15; Columbia University, 1914-15; Warden of Rockefeller Hall, 1913-14; Volunteer Social Worker, 1915-16; Director of Bryn Mawr Community Centre, 1916-19.

ISABEL MADDISON, B.Sc., PH.D., *Recording Dean and Assistant to the President.*

Reading, England. B.Sc., University of London, 1893; Ph.D., Bryn Mawr College, 1896, and B.A., Trinity College, Dublin, 1905; Girton College, University of Cambridge, England, 1889-92; Graduate in Honours, First Class, in the Cambridge Mathematical Tripos, 1892; Graduate in Honours, Final Mathematical Schools, University of Oxford, 1892; Graduate Student in Mathematics, Bryn Mawr College, 1892-93, and Fellow in Mathematics, 1893-94; Holder of the Mary E. Garrett European Fellowship and Student in Mathematics, University of Göttingen, 1894-95.

CHARLOTTE ANGAS SCOTT, D.Sc., *Alumna Professor of Mathematics.*

Lincoln, England. Graduate in Honours, Girton College, University of Cambridge, England, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, 1880-84; lectured in connection with Newnham College, University of Cambridge, England, 1880-83; D.Sc., University of London, 1885.

GEORGE A. BARTON, PH.D., LL.D., *Professor of Biblical Literature and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; studied under the direction of the American Institute of Hebrew, 1885-86; Harvard University, 1888-91; Thayer Scholar, Harvard University, 1889-91; A.M., Harvard University, 1890; Ph.D., Harvard University, 1891. Director of the American School of Oriental Study and Research in Palestine, 1902-03; LL.D., Haverford College, 1914.

FLORENCE BASCOM,* PH.D., *Professor of Geology.*

A.B., University of Wisconsin, 1882, B.Sc., 1884, and A.M., 1887. Johns Hopkins University, 1891-93; Ph.D., Johns Hopkins University, 1893. Assistant in Geology and Instructor in Petrography, Ohio State University, 1893-95.

WILMER CAVE WRIGHT, PH.D., *Professor of Greek.*

Shrewsbury, England. Girton College, University of Cambridge, England, 1888-92; Graduate in Honours, Cambridge Classical Tripos, 1892; Ph.D., University of Chicago, 1895. Fellow in Greek, Bryn Mawr College, 1892-93; Fellow in Latin, University of Chicago, 1893-94, and Fellow in Greek, 1894-95; Reader in Greek and Latin, University of Chicago, 1895-96.

JAMES H. LEUBA,† PH.D., *Professor of Psychology.*

Neuchâtel, Switzerland. B.S., University of Neuchâtel, 1886; Ph.D., Ursinus College, 1888; Scholar in Psychology, Clark University, 1892-94; Fellow in Psychology, Clark University, 1893-95; Ph.D., Clark University, 1896.

FONGER DELHAAN, PH.D., *Professor of Spanish.*

Leeuwarden, Holland. Ph.D., Johns Hopkins University, 1895; Instructor in Modern Languages, Lehigh University, 1885-91; Fellow in Romance Languages, Johns Hopkins University, 1893-94, Assistant in Romance Languages, 1893-95, Instructor in Romance Languages, 1895-96, and Associate in Romance Languages, 1896-97.

* Granted leave of absence for the year 1922-23.

† Granted leave of absence for the year 1921-22.

ARTHUR LESLIE WHEELER,* PH.D., *Alumnæ Professor of Latin.*

A.B., Yale University, 1893; Scholar and Student in Classics, Yale College, 1893-96; Ph.D., Yale University, 1896. Instructor and Tutor in Latin, Yale College, 1894-1900.

HENRY NEVILL SANDERS, PH.D., *Alumnæ Professor of Greek.*

Edinburgh, Scotland. A.B., Trinity University, Toronto, 1894, and A.M., 1897; Ph.D., Johns Hopkins University, 1903. Fellow in Greek, Johns Hopkins University, 1897-98; Lecturer in Greek, McGill University, 1900-02.

WILLIAM BASHFORD HUFF, PH.D., *Professor of Physics.*

A.B., University of Wisconsin, 1889; A.M., University of Chicago, 1896; Ph.D., Johns Hopkins University, 1900. Lecture Assistant in Physics, Johns Hopkins University, 1899-1900, Assistant in Physics, 1900-01, and Instructor in Physics, 1901-02.

WILLIAM ROY SMITH, PH.D., *Professor of History.*

A.B., University of Texas, 1897, and A.M., 1898; Ph.D., Columbia University, 1903. Acting Professor of History and Political Science, University of Colorado, 1900-01; Lecturer in History, Barnard College, 1901-02.

LUCY MARTIN DONNELLY,† A.B., *Mary Elizabeth Garrett Memorial Alumnæ Professor of English.*

A.B., Bryn Mawr College, 1893; University of Oxford, England, and University of Leipsic, 1893-94; Sorbonne and Collège de France, and University of Leipsic, 1894-95.

DAVID HILT TENNENT,† PH.D., *Professor of Biology.*

S.B., Olivet College, 1900; Ph.D., Johns Hopkins University, 1904. Fellow, Johns Hopkins University, 1902-04; Bruce Fellow, Johns Hopkins University, 1904.

CARLETON BROWN, PH.D., *Professor of English Philology.*

A.B., Carleton College, 1888; A.M., Harvard University, 1901, and Ph.D., 1903. Shattuck Scholar, Harvard University, 1901-03; Instructor in English, Harvard University, 1903-05; Associate in English Philology, Bryn Mawr College, 1905-07; Associate Professor, 1907-10, and Professor, 1910-17; Professor of English, University of Minnesota, 1917-21; Exchange Professor, University of Oxford, 1919-20.

JAMES BARNES, PH.D., *Professor of Physics.*

Halifax, Nova Scotia. B.A., Dalhousie University, Honours in Mathematics and Physics, 1899, and M.A., 1900; Ph.D., Johns Hopkins University, 1904. Holder of 1851 Exhibition Science Research Scholarship, 1900-03; Fellow, Johns Hopkins University, 1903-04, and Assistant in Physics, 1904-06; Resident Fellow, University of Manchester, 1915.

THEODORE DE LEO DE LAGUNA,* PH.D., *Professor of Philosophy.*

A.B., University of California, 1896, and A.M., 1899; Ph.D., Cornell University, 1901. Teacher in the Government Schools of the Philippine Islands, 1901-04; Honorary Fellow and Assistant in Philosophy, Cornell University, 1904-05; Assistant Professor of the Philosophy of Education, University of Michigan, 1905-07.

MARION PARRIS SMITH, PH.D., *Professor of Economics.*

A.B., Bryn Mawr College, 1901, and Ph.D., 1908. Graduate Student, Bryn Mawr College, 1902-05, Fellow in Economics and Politics, 1905-06; Bryn Mawr College Research Fellow and Student in Economics and Politics, University of Vienna, 1906-07.

CLARENCE ERROL FERREE, PH.D., *Professor of Experimental Psychology and Director of the Psychological Laboratory.*

B.S., Ohio Wesleyan University, 1900, A.M., 1901, and M.S., 1902; Ph.D., Cornell University, 1909. Fellow in Psychology, Cornell University, 1902-03; Assistant in Psychology, Cornell University, 1903-07.

GRACE MEAD ANDRUS DE LAGUNA,* PH.D., *Associate Professor of Philosophy.*

A.B., Cornell University, 1903, and Ph.D., 1906. Sage Scholar in Philosophy, Cornell University, 1903-05; Alice Freeman Palmer Fellow in Wellesley College, 1905-06; Reader in Philosophy, Bryn Mawr College, 1907-08.

* Granted leave of absence for the year 1921-22.

† Granted leave of absence for the year 1922-23.

REGINA KATHARINE CRANDALL, PH.D., *Margaret Kingsland Haskell Professor of English Composition.*

A.B., Smith College, 1890; Ph.D., University of Chicago, 1902. Graduate Student, University of Chicago, 1893-94, and Fellow in History, 1894-96; Assistant in History, Smith College, 1896-99; Instructor in History, Wellesley College, 1899-1900.

EDITH ORLADY, A.B., *Secretary and Registrar of the College.*

A.B., Bryn Mawr College, 1902. Warden of Pembroke Hall West, 1903-05, and Warden of Rockefeller Hall, 1905-06; Graduate Student, University of Grenoble, 1906-07, Bryn Mawr College, 1903-06, 1907-09; Recording Secretary and Appointment Secretary, 1910-12.

ROGER FREDERIC BRUNEL, PH.D., *Professor of Chemistry.*

A.B., Colby University, 1903; Ph.D., Johns Hopkins University, 1906. Lecture Assistant in Chemistry, Johns Hopkins University, 1906-07; Instructor in Chemistry, Syracuse University, 1907-10, and Assistant Professor of Chemistry, 1910-12.

MATILDE CASTRO,* PH.D., *Phebe Anna Thorne Professor of Education and Director of the Phebe Anna Thorne Model School.*

A.B., University of Chicago, 1900, and Ph.D., 1907. Fellow in Philosophy, University of Chicago, 1900-01, 1903-04, 1905-06. Principal of the High School, Morris, Ill., 1901-03; Instructor in Philosophy, Mount Holyoke College, 1904-05; Instructor in Philosophy, Vassar College, 1906-09; Professor and Head of the Department of Philosophy, Rockford College, 1910-12.

GERTRUDE RAND, PH.D., *Associate in Experimental and Applied Psychology.*

A.B., Cornell University, 1908; Ph.D., Bryn Mawr College, 1911. Graduate Scholar in Psychology, Bryn Mawr College, 1908-09, 1911-12, Fellow in Philosophy, 1909-10, Fellow in Psychology, 1910-11, and Sarah Berliner Research Fellow, 1912-13.

EUNICE MORGAN SCHENCK, PH.D., *Associate Professor of French.*

A.B., Bryn Mawr College, 1907, and Ph.D., 1913. Graduate Student, Bryn Mawr College, 1909, Graduate Scholar, 1909-10, and Fellow in Romance Languages, 1912-13; President's European Fellow and Student, the Sorbonne, Collège de France, University of Grenoble, and in Madrid, 1910-12; Dean of the College, Bryn Mawr College, 1916-17.

SAMUEL CLAGGETT CHEW,* PH.D., *Professor of English Literature.*

A.B., Johns Hopkins University, 1909, and Ph.D., 1913. Fellow, Johns Hopkins University, 1910-12; English Master, Hotchkiss School, Lakeville, Conn., 1913-14.

SUSAN MYRA KINGSBURY,* PH.D., *Carola Woerishoffer Professor of Social Economy and Director of the Carola Woerishoffer Department of Social Research.*

A.B., College of the Pacific, 1890; A.M., Leland Stanford Jr. University, 1899; Ph.D., Columbia University, 1905. University Fellow, Columbia University, 1902-03; Holder of the European Fellowship of the Women's Education Association, Boston, Mass., 1903-04; Instructor in History, Vassar College, 1904-05; Director of Investigation, Massachusetts Commission on Industrial and Technical Education, 1905-06; Instructor in History and Economics and Head of Departments, Simmons College, 1906-07; Assistant, Associate, and Professor in Economics, Simmons College and Director of the Department of Research, Women's Educational and Industrial Union, Boston, 1907-15.

GEORGIANA GODDARD KING, A.M., *Professor of the History of Art.*

A.B., Bryn Mawr College, 1896, and A.M., 1897. Fellow in Philosophy, Bryn Mawr College, 1896-97, and Fellow in English, 1897-98; Collège de France, First Semester, 1898-99.

RHYS CARPENTER, PH.D., *Professor of Classical Archæology.*

A.B., Columbia University, 1909, and Ph.D., 1916; B.A., University of Oxford, 1911, and M.A., 1914. Rhodes Scholar and Student, Balliol College, University of Oxford, 1908-11; Drisler Fellow in Classics, Columbia University, 1911-13; Student, American School of Classical Studies in Athens, 1912-13; Absent for Military Service, 1917-19.

CHARLES GHEQUIERE FENWICK, PH.D., *Professor of Political Science.*

A.B., Loyola College, 1907; Ph.D., Johns Hopkins University, 1912. Student of Political Science, Johns Hopkins University, 1909-11; Law Clerk, Division of International Law in the Carnegie Endowment for International Peace, 1911-14; University of Freiburg, Summer, 1913; Lecturer on International Law, Washington College of Law, 1912-14.

* Granted leave of absence for the year 1921-22.

HOWARD LEVI GRAY, PH.D., *Professor of History.*

A.B., University of Rochester, 1897; A.B., Harvard University, 1898, A.M., 1900, and Ph.D., 1907. Instructor in History, Harvard University, 1909-13, and Assistant Professor of History, 1914-15. Absent on War Service, 1918-19.

JAMES LLEWELLYN CRENSHAW, PH.D., *Associate Professor of Physical Chemistry.*

A.B., Centre College, 1907, and A.M., 1908; Ph.D., Princeton University, 1911. Assistant Chemist in the Geo-Physical Laboratory of the Carnegie Institution, Washington, D. C., 1910-15. Absent for Military Service, 1917-19.

HOWARD JAMES SAVAGE, PH.D., *Associate Professor of Rhetoric and Director of the Work in English Composition.*

A.B., Tufts College, 1907; A.M., Harvard University, 1909, and Ph.D., 1915. Instructor in English, Tufts College, 1908-11; Instructor in English, Harvard University, 1911-13, and at Radcliffe College, 1911-15; Graduate Student, Harvard University, 1908-09; 1913-15; Instructor in the Harvard Summer School, 1912, 1913, 1914, 1915. Absent for Military Service, 1917-19.

ETHEL ERNESTINE SABIN, PH.D., *Associate in Philosophy.*

A.B., University of Wisconsin, 1903, and A.M., 1914; Ph.D., University of Illinois, 1916. Graduate Scholar, University of Wisconsin, 1913-14; Fellow, University of Illinois, 1914-16; Assistant in English, University of Illinois, 1916-17.

ADA HART ARLITT, PH.D., *Associate in Educational Psychology.*

A.B., H. Sophie Newcomb Memorial College of Tulane University, 1913; Ph.D., University of Chicago, 1917. Fellow in Biology, H. Sophie Newcomb Memorial College, 1913-14; Fellow in Psychology, University of Chicago, 1914-16; Fellow in Sprague Institute, 1916-17.

SAMUEL ARTHUR KING, M.A., *Non-resident Lecturer in English Diction.*

Tynemouth, England. M.A., University of London, 1900. Special Lecturer in Public Speaking, Johns Hopkins University, 1901; Special Lecturer in Speech, University of California, 1902.

ANNA JOHNSON PELL, PH.D., *Associate Professor of Mathematics.*

A.B., University of South Dakota, 1903; M.S., University of Iowa, 1904; A.M., Radcliffe College, 1905; Ph.D., University of Chicago, 1910; Holder of Alice Freeman Palmer Fellowship of Wellesley College and Student in Mathematics, University of Göttingen, 1906-07; Instructor in Mathematics, Mount Holyoke College, 1911-14, and Associate Professor of Mathematics, 1914-18.

CHARLES WENDELL DAVID, PH.D., *Associate Professor of History.*

B.A., Oxford University, 1911; A.M., University of Wisconsin, 1912; Ph.D., Harvard University, 1918; Rhodes Scholar, University of Oxford, 1908-11. Instructor in History, University of Washington, 1915-18.

AGNES RUTHERFORD RIDDELL, PH.D., *Associate in Italian.*

A.B., University of Toronto, 1896, with first class honours in Modern Languages; and A.M., 1897. Honours, Ontario Normal College, 1898. Ph.D., University of Chicago, 1916. Teacher of French and German, Oshawa High School, 1898-1901; Assistant Reader, Department of English, University of Toronto, 1902-11; Teacher of English, Branksome Hall, Toronto, 1904-05; Teacher of German, Latin and English, Westbourne School, Toronto, 1906-10, 1913-14; Graduate Student in Romance Languages, University of Chicago, January, 1912, to August, 1913; Fellow in Romance Languages, University of Chicago, 1914-15; Acting Head of Kelly Hall, University of Chicago, summers of 1913, 1914 and 1915; Professor of Romance Languages, and Dean of Women, College of Emporia, 1915-17.

MARCELLE PARDÉ, *Agrégée des Lettres, Associate in French.*

Beauvais, Oise, France. Ecole Normale Supérieure de Sévres, 1911-14. Teacher in the Lycée, Chaumont, Haute Marne, 1915-19; Student, the Sorbonne, 1911-16; Agrégée des lettres, University of Paris, 1917.

EDUARD PROKOSCH, PH.D., *Associate Professor of German.*

Eger, Bohemia. University of Prague, 1894-95; University of Vienna, 1895-97; University of Chicago, 1899-1904; *Staats Examen*, 1897; A.M., University of Chicago, 1901; University of Leipzig, 1904-05; Ph.D., University of Leipzig, 1905. Instructor in German, Francis W. Parker School and School of Education, University of Chicago, 1901-02; Instructor in German Department, University of Chicago, 1902-04; University of Wisconsin, 1905-09; Assistant Professor of German and Comparative Philology, University of Wisconsin, 1909-13; Professor of Germanic Philology, University of Texas, 1913-19.

ANNA BAKER YATES, Ph.D., *Associate in Physiology and Biochemistry.*

A.B., Mount Holyoke College, 1913; M.A., Columbia University, 1915; Ph.D., Columbia University, 1920. Assistant in Chemistry, Barnard College, 1913-15; Instructor in Physiology, Mount Holyoke College, 1915-17; Scientific Assistant, U. S. Public Health Service, August to December, 1917; Teaching Fellow in Physiology, University of Minnesota, 1917-18; Member of Instructing Staff, Training Course for Health Officers, Mount Holyoke College, 1919; Special Investigator, Industrial Service Section, Chicago District Ordnance Department, 1918-19; Instructor in Physiology, Wellesley College, 1919-20.

CLAUDE GILLI, B.A., *Associate Professor of French.*

Nice, France. B.A., London University, First Class Honours, 1909; Rothschild Prizeman in Romance Philology, University College; Lecturer in Romance Philology, East London College, 1910-13; and in Westfield College, 1912-14; Lecturer, University of Montpellier, 1917-20.

FRANZ SCHRADER, Ph.D., *Associate in Biology.*

B.S., Columbia University, 1914, and Ph.D., 1919. Scientist for the Bureau of Fisheries, Department of Commerce, Washington, D. C., 1915-16 and summer of 1917; and Pathologist, 1919 to January 31, 1921. Assistant in Zoölogy, Columbia University, 1918-19.

MARY HAMILTON SWINDLER, Ph.D., *Associate in Latin and Classical Archaeology.*

A.B., University of Indiana, 1905, and A.M., 1906; Ph.D., Bryn Mawr College, 1912. Graduate Scholar in Greek, Bryn Mawr College, 1906-07, and Fellow in Greek, 1907-09; Mary E. Garrett European Fellow and Student, Universities of Berlin and Oxford and the American School of Classical Studies in Athens, 1909-10; Teacher in the Misses Shipley's School, Bryn Mawr, 1910-11, in Miss Wright's School, Bryn Mawr, 1911-12, and in the Phebe Anna Thorne Model School, 1914-17.

MALCOLM HAVENS BISSELL, Ph.D., *Associate in Geology.*

Ph.B., Yale University, 1911, A.M., 1918, and Ph.D., 1921; Instructor in Engineering, University of Pittsburgh, 1913-14; Assistant in Geography, Yale University, 1917-18; with Connecticut Geological Survey, 1917.

EVA WHITING WHITE, B.S., *Non-resident Lecturer in Social Economy (Community Organization).*

B.S., Simmons College, 1907. Head Resident, Elizabeth Peabody House, Boston, Mass., 1909—; Massachusetts Board of Education, in charge of Vocational Education for Women and Girls, 1910-14; Staff Lecturer, Boston School for Social Work, 1912-14; Massachusetts Homestead Commission, 1916—; Massachusetts Immigration Commission, 1916; Survey of Public Schools, Gary, Ind., 1916; Vice-Chairman, Federal Commission on Living Conditions, 1917-19; Director of Training, Intercollegiate Community Service Association, 1919—.

NEVA DEARDORFF, Ph.D., *Associate Professor of Social Economy (Social Relief).*

A.B., University of Michigan, 1908; Ph.D., University of Pennsylvania, 1911; Fellow, University of Pennsylvania, 1908-11. Staff, Assistant Director, Bureau of Municipal Research, Philadelphia, 1912-18; Chief, Department of Vital Statistics, City of Philadelphia, 1914-16; Assistant to Director-General of Civilian Relief, American Red Cross, 1918—.

HENRIETTA ADDITON, M.A., *Non-resident Lecturer in Social Economy (Social Guardianship).*

A.B., Piedmont College, 1907; M.A., University of Pennsylvania, 1911; Fellow, University of Pennsylvania, 1910-11, 1912-13. Instructor, History and Civics, Piedmont College, 1908-10; Agent, Philadelphia Society for Organizing Charity, 1913-14; Probation Officer and Case Supervisor, Philadelphia Municipal Court, 1914-16; In Charge, Probation Department, Juvenile Court, 1917; Assistant Director and Director, Section on Women and Girls, Law Enforcement Division, Commission on Training Camp Activities, War Department, 1918-19; Executive Assistant and Director, Field Service, Women and Girls, United States Interdepartmental Social Hygiene Board, 1919—.

SUSAN HELEN BALLOU, Ph.D., *Associate in Latin.*

Ph.B., University of Chicago, 1897; Ph.D., University of Giessen, 1912. Graduate Scholar in Latin, University of Chicago, 1897-98, Assistant in Latin, 1898-1900, and Associate in Latin, 1901-07. Travelling Fellow of the Association of Collegiate Alumnae at the American School of Classical Studies, Rome, 1901-02; Student of Paleography in Rome, 1903-04, and Carnegie Research Fellow in Latin Literature, American School of Classical Studies, Rome, 1905-06. Student, Universities of Göttingen and Giessen, 1910, 1911. Instructor in Latin, University of Chicago, 1907-15; in charge of Latin Department, Western State Normal School, 1915-17; Instructor in History, University of Wisconsin, 1917-20.

JOHN WILLIAM DRAPER,* Ph.D., *Lecturer in English Literature.*

A.B., New York University, 1914; and M.A., 1915; M.A., Harvard University, 1918, and Ph.D., 1920; Assistant in English, New York University, September, 1914, to December, 1915, and Instructor in English, December, 1915, to September, 1916; Instructor in English, University of Minnesota, 1920-21.

WILL SENTMAN TAYLOR,† M.A., *Lecturer in Psychology.*

S.B., Pennsylvania College of Gettysburg, 1916; A.M., Harvard University, 1920; Assistant in Philosophy, Psychology and Modern European History, Pennsylvania College of Gettysburg, 1916-17; Assistant in Philosophy, Harvard University, 1919-20.

THOMAS WHITNEY SURETTE, *Director of the Department of Theoretical Music.*

Special Student, Harvard University, 1890-92. Staff Lecturer in Music to the Extension Delegacy of Oxford University, 1907—. Curator of Music in the Museum of Art, Cleveland, O.

CHARLES EMIL KANY, Ph.D., *Associate in Spanish.*

A.B., University of Michigan, 1917; A.M., Harvard University, 1918, and Ph.D., 1920. Royal Academy of Music and Normal School of Languages, Vienna, 1912-16; *Staatsprüfung* for French and German, Vienna, 1915; Instructor in Music and German, Winona College, Indiana, summer, 1916; Graduate Student in Romance Philology, Harvard University, 1917-20; Thayer Fellow, 1918-19, and Harris Fellow, 1919-20; Frederick Sheldon Travelling Fellow, 1920-21; University of Florence, summer, 1920; The Sorbonne, Collège de France, Institut Catholique, École pratique des hautes Études, 1920-21; University of Madrid, summer, 1921.

HORACE ALWYNE, A.R.M.C.M., *Associate Professor of Music.*

Manchester, England. Holder of Sir Charles Hallé Memorial Scholarship, 1909-12, Gold medalist and graduate (with distinction) of Royal Manchester College of Music, England, 1912. Director of Music, Manchester Grammar School, 1911-12; Head of Piano Department, Skidmore School of Arts, Saratoga Springs, N. Y., 1914-21; Student of Professor Max Mayer (England) and Professor Michael von Zadora (Berlin).

HARRIET ESTABROOKS O'SHEA,§ M.A., *Lecturer in Education.*

A.B., University of Wisconsin, 1916, and M.A., 1917. Assistant in Education, University of Wisconsin, 1916; Teacher of Education and Social Psychology, State Teacher's College, Colorado, 1917; Statistician, Trade Test Department, Committee on Classification of Personnel, 1918; Examiner, Clinic for Nervous Disorders, Bellevue Hospital, 1919; Teacher of Education and School Psychologist; Child Education Foundation, 1917-19; Anna C. Brackett Memorial Fellow in Education, Columbia University, 1919-20, and Teachers College Fellow, 1920-21.

JAMES ALEXANDER KERR THOMSON,‡ M.A., *Lecturer in Latin.*

Aberdeen, Scotland. M.A., Aberdeen University, 1900; B.A., Oxford University, 1905. Scholar of Pembroke College, Oxford, 1901; Assistant Professor of Greek, University of St. Andrews, 1906; Assistant Professor of Greek and Lecturer in Greek History, University of Aberdeen, 1908; Lecturer in Classics, Harvard University, 1919.

KATHERINE ROTAN DRINKER, M.D., *Non-resident Lecturer in Hygiene.*

A.B., Bryn Mawr College, 1910; M.D., Woman's Medical College of Pennsylvania, 1914. Graduate Research Student, Department of Physiology, Harvard Medical School, 1914-15, and Johns Hopkins Medical School, 1915-16; Assistant Resident Physician, Peter Bent Brigham Hospital, Boston, 1917; Managing Editor, *Journal of Industrial Hygiene*, Harvard Medical School, 1918—.

GEORGE A. JOHNSTON ROSS, D.D., *Non-resident Lecturer in Christian Ethics.*

Inverness, Scotland. M.A., University of Edinburgh, 1884; United Presbyterian College, Edinburgh, 1888; D.D., Harvard University, 1919; D.D., Knox College, Toronto, 1919. Professor of Practical Theology, Presbyterian College, Montreal, Canada, 1911-12; Professor of Homiletics, Union Theological Seminary, New York City, 1912—.

* Substitute for Professor Samuel Claggett Chew, Professor of English Literature.

† Substitute for Professor James H. Leuba, Professor of Psychology.

‡ Substitute for Professor Arthur Leslie Wheeler, Professor of Latin.

§ Substitute for Professor Matilde Castro, Professor of Education.

SUE AVIS BLAKE, M.A., *Instructor in Physics.*

A.B., Bryn Mawr College, 1898, and M.A., 1900. Demonstrator and Graduate Student in Physics, Bryn Mawr College, 1898-99, and 1904-06, and Fellow in Physics, 1906-07; Graduate Student, Bryn Mawr College, and Teacher of Mathematics and Science in the Misses Shipley's School, Bryn Mawr, 1899-1900; Assistant in Physics, Smith College, 1900-02, 1903-04; Fellow in Physics, University of Pennsylvania, 1907-08; Instructor in Physics, Smith College, 1910-15, Bryn Mawr College, 1918-19.

MARJORIE LORNE FRANKLIN, A.M., *Instructor in Economics and Politics.*

A.B., Barnard College, 1913, and A.M., Columbia University, 1916. Graduate Scholar, Bryn Mawr College, 1913-14, and Fellow in Economics, 1914-15; Columbia University, 1915-16; Library Assistant, American Telephone and Telegraph Co., 1916-17; Instructor in Political Science, Vassar College, 1917-18.

KATHARINE FORBES LIDDELL, A.B., *Instructor in English Composition.*

A.B., Bryn Mawr College, 1910. Teacher of English and Athletics in Lucy Cobb Institute, Athens, Ga., 1910-12; Instructor in English, Miss Madeira's School, Washington, D. C., 1912-14; Graduate Student, University of Oxford, 1914-15; Instructor in English Composition, Wellesley College, 1915-20.

GLADYS BOONE, M.A., *Instructor in Social Economy and Social Research.*

Stoke-on-Trent, England. B.A., University of Birmingham, 1916, and M.A., 1917. Teacher of young employees, especially in connection with the Cadbury Chocolate Factories, and tutor in Economic History in Workers' Educational Association, Birmingham, 1917-19; Holder of Rose Sidgwick Memorial Fellowship at Columbia University, 1919-20.

AMPHILIS T. MIDDLEMORE, B.A., *Instructor in English Composition.*

Worcester, England. University of Oxford, Final Honour School in English Language and Literature, 1916. English Teacher, Worcester Secondary School for Girls, 1918-20.

CHRISTINE SARAUE, PH.D., *Instructor in Italian, Spanish and German.*

M.A., Columbia University, 1910, and Ph.D., University of Jena, 1915. Student in the Universities of Paris, Jena and Zurich; Studied in Italy and Spain. Teacher in Preparatory Schools, 1902-06, 1910-13; Instructor in Spanish, Italian, and French, Vassar College, 1906-08, and in German, 1916-17; Instructor in German and Spanish, Bryn Mawr College, 1917-18.

MARTHE JEANNE TROTAIN, *Instructor in French.*

Paris, France. Certificat d'aptitude à l'enseignement d'Anglais dans les Lycées et Collèges, 1918. Student in the Sorbonne, 1916-18. Teacher in Schools in England, 1913-14, 1915-16. French Graduate Scholar, Bryn Mawr College, 1918-20; Teacher of French in the Phebe Anna Thorne School, 1920-21.

GEORGE ROWLEY, A.B., *Instructor in Modern Art.*

A.B., University of Pennsylvania, 1913. Law School, University of Pennsylvania, 1913-15; Instructor in English, University of Pennsylvania, 1915-17; Military Service, 1917-19; Graduate Student in Aesthetics and Archaeology, 1919, and Fellow in Fine Arts, 1919-20; Columbia Summer School, 1919; Fellow in Fine Arts, Princeton University, 1920-21.

MARY UNDERHILL, M.A., *Instructor in English Composition.*

A.B., Radcliffe College, 1914, and M.A., 1921. Teacher in St. Helen's Hall, Portland, Ore., 1914-16; Miss Marot's School, Thompson, Conn., 1916-18; Instructor in English Composition, Wellesley College, 1918-20.

ABBY KIRK, A.B., *Reader in Elementary Greek.*

A.B., Bryn Mawr College, 1892. Reader in English, Bryn Mawr College, 1892-98; Associate Principal and Teacher of English and Classics in the Misses Kirk's School, Bryn Mawr, 1899.

MARIAN CLEMENTINE KLEPS, A.B., *Reader in Mathematics.*

A.B., and Bryn Mawr European Fellow, Bryn Mawr College, 1916. Assistant to the Recording Secretary, 1916-17; Reader in Mathematics, 1917-18; Assistant to the Secretary and Registrar, 1918-21.

MARGARET KINGSLAND HASKELL, A.B., *Reader in English.*

A.B., Bryn Mawr College, 1916; Graduate Student, University of Chicago, 1917. American Red Cross Civilian Relief Worker, 1918-19.

ZORA SCHAUPP, M.A., *Reader in Philosophy and Psychology.*

A.B., University of Nebraska, 1919, and M.A., 1921. Assistant in Laboratory Work and Quiz Sections, University of Nebraska, 1919-21.

MARY L. MORSE, M.S., *Demonstrator in Chemistry.*

B.S., University of Michigan, 1919, and M.S., 1920.

MARGARET WIESMAN, A.B., *Demonstrator in Applied Psychology.*

A.B., Bryn Mawr College, 1921.

THELMA WILLIAMS KLEINAU, A.B., *Demonstrator in Experimental Psychology.*

A.B., Bryn Mawr College, 1921.

HELEN MARGARET INGRAHAM, M.S., *Demonstrator in Biology.*

B.S., Knox College, 1918, M.S., University of Chicago, 1921. Teacher in Lewistown, Ill., 1918-20.

LOIS ANTOINETTE REED, A.B., B.L.S., *Librarian.*

A.B., University of Illinois, 1909; B.L.S., New York State Library School, 1904. Librarian, The Western College, Oxford, Ohio, 1905-07; Cataloguer and Order Department Assistant, Library of the University of Illinois, 1907-10; Assistant Librarian, University of Rochester, 1910-12.

MARY LOUISE TERRIEN, A.B., *Circulation and Reference Librarian.*

A.B., Smith College, 1905. Simmons College Library School, Boston, Mass., 1914-15.

MARY ISABELLE O'SULLIVAN, A.B., *Head Cataloguer.*

A.B., Bryn Mawr College, 1907; New York State Library School, 1915-16. Private Tutor and Night Librarian, Drexel Institute, 1908-09; Indexer, Estate of Stephen Girard, Philadelphia, 1909-15; Cataloguer, New York Public Library, 1916-17; Scholar in English Composition, Bryn Mawr College, 1917-18.

MAY MORRIS, Ph.B., *Assistant to the Circulation and Reference Librarian.*

Ph.B., Dickinson College, 1909. Pratt Institute School of Library Science, 1917.

BESSIE HOMER JENNINGS, *Assistant Cataloguer.*

Graduate, Drexel Institute Library School, 1900.

CONSTANCE M. K. APPLEBEE, *Director of Physical Training and Supervisor of Health.*

Licentiate, British College of Physical Education, 1898, and Member, 1899. Gymnasium Mistress, Girls' Grammar School, Bradford, Yorkshire, 1899-1900; in the Arnold Foster High School, Burnley, Yorkshire, 1899-1901; in the High School, Halifax, Yorkshire, 1900-01; Head of Private Gymnasium, Ilkley, Yorkshire, 1899-1901; Harvard School of Physical Training, summer, 1901; Hockey Coach, Vassar College, Wellesley College, Radcliffe College, Mount Holyoke College, Smith College, Bryn Mawr College, Boston Normal School of Gymnastics, 1901-04; Hockey Coach, Harvard Summer School of Gymnastics, 1906.

CONSTANCE ELEANOR DOWD, A.B., *Assistant Director of Athletics and Gymnastics.*

A.B., Bryn Mawr College, 1916. Secretary to Attending Surgeon, Roosevelt Hospital, 1917-18; Clerk, Ordnance Bureau, War Department, 1918-19.

HALLS OF RESIDENCE.

ALYS SMITH RUSSELL, A.B., *Head Warden and Warden of Pembroke Hall East.*

A.B., Bryn Mawr College, 1890. Volunteer Social and Political Worker.

FRIEDRIKA MARGARETHE HEYL, A.B., *Warden of Radnor Hall and Assistant in the Bureau of Recommendations.*

A.B., Bryn Mawr College, 1899. Teacher of German and Student, State Normal School, Fredonia, N. Y., 1899-1900; Teacher in the Balliol School, Utica, N. Y., 1900-01, and Secretary, 1901-08; Warden of Merion Hall, Bryn Mawr College, 1908-10; Assistant to the Dean of Women, Michigan Agricultural College, 1916-18; Secretary to the Adviser of Women, Cornell University, 1918-20.

MARY SUMMERFIELD GARDINER, A.B., *Warden of Denbigh Hall and Assistant Adviser of Students.*

A.B., Bryn Mawr College, 1918. Information Secretary, Y. W. C. A. Hostess House, Camp Mills, Long Island, 1918-19; Secretary and Social Worker, Henry Street Settlement, New York City, 1920-21.

AGNES DOROTHY SHIPLEY, M.A., *Warden of Pembroke Hall West and Assistant Adviser of Students.*

A.B., Bryn Mawr College, 1917; M.A., Columbia University, 1921. Resident Nurse Pennsylvania Hospital, 1918-19. Student in Paris, Sorbonne and Collège de France, 1919-20; Graduate Student, Columbia University, 1920-21.

THEODORA BATES, M.A., *Warden of Merion Hall and Assistant to Dean of the College in Health Department.*

A.B., Bryn Mawr College, 1905, and M.A., 1907. Graduate Student, Bryn Mawr College, 1905-06; Teacher of French and German in the Friends' Academy, New Bedford, Mass., 1906-08; Student in Paris, 1908-09; Instructor in the Holton-Arms School, Washington, D. C., 1910-11; in Miss Madeira's School, Washington, D. C., 1910-12; in the Misses Hebb's School, Wilmington, Del., 1914, 1916-17; in the Shipley School, Bryn Mawr, 1917-18; Red Cross Worker, New York City, 1918-19; Director of Community Work, Riis House, New York City, 1920-21.

HELEN JUANITA BARRETT, A.B., *Warden of Rockefeller Hall and Assistant Adviser of Students.*

A.B., Bryn Mawr College, 1913. Worker in Industrial Department of the Y. W. C. A., Philadelphia, 1913-14; General Secretary, Y. W. C. A. of Meadville, Pa., 1914-15; and of Norristown, Pa., 1915-17; Y. W. C. A. Worker in Munitions Plant, Bloomfield, N. J., 1918-19; Director of Community Centre, Bryn Mawr, 1919-21.

HEALTH DEPARTMENT.

HILDA WORTHINGTON SMITH, A.M., *Head of Health Department.*

M. CAREY THOMAS, PH.D., LL.D., L.H.D., *Ex-officio.*

CONSTANCE M. K. APPLEBEE, *Health Supervisor.*

THOMAS F. BRANSON, M.D., *Physician-in-Chief.*

A.B., Haverford College, 1889; M.D., University of Pennsylvania, 1892. Attending Physician, Bryn Mawr Hospital.

MABEL HATTERSLEY PEARSON, M.D., *Assistant Resident Physician.*

London, England. Associate, Royal College of Science, London, 1904. British Graduate Scholar, Bryn Mawr College, 1910-11; Student, Woman's Medical College of Pennsylvania, 1916-20, and M.D., 1920. Interne in College Hospital, Woman's Medical College of Pennsylvania, 1920-21.

HELEN MURPHY, M.D., *Examining Oculist.*

M.D., Woman's Medical College of Pennsylvania, 1893; Assistant Demonstrator in Histology, Woman's Medical College of Pennsylvania, 1894-96; Instructor in Materia Medica, 1896-1902; Instructor in Diseases of the Eye, Philadelphia Polyclinic and College for Graduates in Medicine, 1895-97.

The following physicians have consented to serve as consultants:

THOMAS McCRAE, M.D., F.R.C.P., 1627 Spruce Street, Philadelphia, *Consultant Physician.*

GEORGE E. DE SCHWEINITZ, M.D., 1705 Walnut Street, Philadelphia, *Consultant Oculist.*

ROBERT G. LE CONTE, M.D., 2000 Spruce Street, Philadelphia, *Consultant Surgeon.*

ARTHUR E. BILLINGS, M.D., 1703 Spruce Street, Philadelphia, *Consultant Surgeon.*

FRANCIS R. PACKARD, M.D., 302 South 19th Street, Philadelphia, *Consultant Aurist and Laryngologist.*

JAMES K. YOUNG, M.D., 222 South 16th Street, Philadelphia, *Consultant Orthopædist.*

DEPARTMENT OF EDUCATION.

PHEBE ANNA THORNE MODEL SCHOOL.

MATILDE CASTRO, **Ph.D.**, *Director.*

A.B., University of Chicago, 1900, and Ph.D., 1907. Fellow in Philosophy, University of Chicago, 1900-01, 1903-04, 1905-06. Principal of the Morris High School, Morris, Ill., 1901-03; Instructor in Philosophy, Mount Holyoke College, 1904-05; Instructor in Philosophy, Vassar College, 1906-09; Professor and Head of the Department of Philosophy, Rockford College, 1910-12. Phebe Anna Thorne Professor of Education, Bryn Mawr College.

ELSIE GARLAND HOBSON, **Ph.D.**, *Head Mistress.*

A.B., Boston University, 1895, and A.M., 1896; Ph.D., University of Chicago, 1916. Teacher of Greek and English, High School, Lewiston, Me., 1896-97; Teacher of Greek and Latin, Academy for Women, Jacksonville, Ill., 1897-99; Principal in Greek and Latin, Academy for Women, Jacksonville, Ill., 1899-1900; Principal and Teacher of Greek and Latin, Michigan Seminary, Kalamazoo, Mich., 1900-07; Principal and Teacher of Greek and Latin, Frances Shimer Academy, Mt. Carroll, Ill., 1907-13; Teacher of Greek and Latin, Miss Spaid's School, Chicago, Ill., 1913-14; Head of High School Department and Teacher of Mathematics and History, Mary C. Wheeler School, Providence, R. I., 1914-18.

MARY SINCLAIR CRAWFORD, **M.A.**, *Assistant to the Head Mistress and Teacher of French.*

A.B., Wilson College, 1903; M.A., University of Pennsylvania, 1921. Teacher in the Barber Memorial Seminary, Anniston, Ala., 1903-05; and in the Misses Timlow's School, Washington, D. C., 1906; Founder and Co-Principal and Head of French Department, King-Crawford Classical School, Terre Haute, Ind., 1906-16; Dean and Head of French Department, Girtton School, Winnetka, Ill., 1916-18. Executive Secretary, Department of Women in Industry of Pennsylvania Council of National Defense, 1918-19; Community Organizer for War Camp Community Service, 1919; Graduate Student, University of Pennsylvania, 1918-19, 1920-22, Bryn Mawr College, 1920-22. Instructor in French, Bryn Mawr College, 1919-21.

SAMUEL ARTHUR KING, **M.A.**, *Teacher of Reading.*

Tynemouth, England. M.A., University of London, 1900. Special Lecturer in Public Speaking, Johns Hopkins University, 1901; Special Lecturer in Speech, University of California, 1902; Non-Resident Lecturer in English Diction, Bryn Mawr College.

MABEL PAULINE WOLFF, **A.M.**, *Teacher of History.*

A.B., Barnard College, 1905, and A.M., Columbia University, 1915. Teacher, Public School, Patton, Pa., 1905-06, Allentown College for Women, 1906-07, Paulsboro High School, Gloucester City, N. J., 1907-11, Washington Seminary, Washington, Pa., 1911-14, and Leominster High School, Leominster, Mass., 1915-16.

ALICE RUTH PARKER, **A.M.**, *Teacher of Greek and Latin.*

A.B., Mount Holyoke College, 1913, and A.M., 1915. Reader in Latin, Mount Holyoke College, 1913-15; Teacher of Latin, High School, Hudson, N. Y., 1915-17; Teacher of Latin, Cortland Normal School, Cortland, N. Y., 1917-18.

RIDIE J. GUION, **A.M.**, *Teacher of English.*

A.B., Wellesley College, 1911; A.M., Columbia University, 1917. Teacher of English, Graham Hall, Minneapolis, Minn., 1912-15; Miss Fine's School, Princeton, N. J., 1915-17.

ELIZABETH RIDER MERRITT, **B.S.**, *Teacher of Painting, Drawing and Modeling, and Crafts.*

B.S., Teachers College, Columbia University, 1918. Teacher of Fine Arts, Horace Mann School, Teachers College, New York City, 1918-19.

N. ELENA COLLINGE, **M.A.**, *Teacher of Primary Department.*

B.S., Teachers College, Columbia University, 1909. M.A., University of Pennsylvania, 1921. Graduate Student, Columbia University, Summer School, 1919. 1921, Supervisor of Kindergarten Education, New York State Normal School, 1909-11; Lecture Course, Madame Montessori, 1916. Business Training Course, Boston University, 1918-19.

MARCELIA WAGNER, A.B., *Teacher of Elementary Mathematics and Beginning Science.*

A.B., Wellesley College, 1917. Laboratory Assistant in Botany, Wellesley College, 1917-18; Instructor in Botany, Sweet Briar College, 1918-20.

KATE DUVAL PITTS, A.B., *Teacher of French.*

A.B., Bryn Mawr College, 1903. Teacher in Miss Wrights School, Bryn Mawr, and Tutor, 1903-05, 1906-07, 1919-20; Student, University of Grenoble, 1905-06; Instructor in English, Simmons College, Boston, Mass., 1907-08.

EDNA M. ROBBINS, A.B., *Teacher of Mathematics and Science.*

A.B., Smith College, 1911. Teacher in the High School, Pethel, Conn., 1911-13, in Canton School, Northampton, Mass., 1913-18; and in the High School, Westerly, R. I., 1918-20.

PLACIDO DE MONTOLIU, *Teacher of Jaques-Dalcroze Eurhythmics (Singing, Dancing).*

Graduate of the Jaques-Dalcroze College of Rhythmic Training, Geneva, Switzerland, and only authorized Director of the Dalcroze System in the United States.

CONSTANCE M. K. APPLEBEE, *Teacher of Gymnastics and Sports and Games.*

Licentiate, British College of Physical Education, 1898, and Member, 1899. Gymnasium Mistress, Girls' Grammar School, Bradford, Yorkshire, 1899-1900; in the Arnold Foster High School, Burnley, Yorkshire, 1899-1901; in the High School, Halifax, Yorkshire, 1900-01; Head of Private Gymnasium, Ilkley, Yorkshire, 1899-1901; Harvard School of Physical Training, summer, 1901; Hockey Coach, Vassar College, Wellesley College, Radcliffe College, Mount Holyoke College, Smith College, Bryn Mawr College, Boston Normal School of Gymnastics, 1901-04; Hockey Coach, Harvard Summer School of Gymnastics, 1906. Director of Gymnastics and Athletics, Bryn Mawr College.

ADA HART ARLITT, PH.D., *Educational Psychology.*

A.B., H. Sophie Newcomb Memorial College, Tulane University, 1913; Ph.D., University of Chicago, 1917; Fellow in Biology, H. Sophie Newcomb Memorial College, 1913-14, and Fellow in Psychology, University of Chicago, 1914-16; Associate in Educational Psychology, Bryn Mawr College.

MABEL HATTERSLEY PEARSON, M.D., *Physician of the School.*

London, England. Associate, Royal College of Science, London, 1904; M.D., Woman's Medical College of Pennsylvania, 1920; Interne in College Hospital, Woman's Medical College of Pennsylvania, 1920-21.

HELEN MURPHY, M.D., *Examining Oculist.*

M.D., Woman's Medical College of Pennsylvania, 1893. Assistant Demonstrator in Histology, Woman's Medical College of Pennsylvania, 1894-96; Instructor in Materia Medica, 1896-1902; Instructor in Diseases of the Eye, Philadelphia Polyclinic and College for Graduates in Medicine, 1895-97; Examining Oculist of Bryn Mawr College.

DEPARTMENT OF BUSINESS ADMINISTRATION.

JOHN J. FOLEY, *Superintendent.*

MINNIE RATCLIFFE, *Supervisor of Housekeeping.*

LAURA HOWARD, *Chief Clerk.*

PAUL ROSTEL, *Supervisor of Culinary Department.*

FIRE DEPARTMENT.

WINFIELD DAUGHERTY, *Fire Chief.*

SAMUEL TITLOW, *First Assistant.*

JOSEPH GRAHAM, *Second Assistant.*

STUDENTS.

Fellows, Scholars, and Graduate Students for the Year 1921-22.

- BOSWELL, ELEANORE, *Bryn Mawr European Fellow and Shippen Foreign Scholar.*
Philadelphia. A.B., Bryn Mawr College, 1921. Trustees' Philadelphia Girls' High School Scholar, 1917-21; Charles S. Hinchman Memorial Scholar, 1920-21; Graduate Student, Bedford College, University of London, 1921-22.
- LEHR, ANNA MARGUERITE MARIE, *President's European Fellow.**
Baltimore. A.B., Goucher College, 1919. Reader and Graduate Student in Mathematics, Bryn Mawr College, 1919-21.
- MARTIN, AMY LAWRENCE, *Mary Elizabeth Garrett European Fellow.*
Chicago, Ill. A.B., Bryn Mawr College, 1915; Columbia University, 1916. Teacher of Economics and History, Riverhook, Nyack, N. Y., 1916-19; Fellow in Economics and Politics, Bryn Mawr College, 1919-21; Graduate Student, London School of Economics, 1921-22.
- GABEL, LEONA CHRISTINE, *Bryn Mawr Travelling Fellow.*
Syracuse, N. Y. A.B., Syracuse University, 1915. Columbia University, Summer Session, 1916. Teacher in the High School, Canastota, N. Y., 1915-17. Graduate Scholar in History, Bryn Mawr College, 1917-18, and Fellow in History, 1918-19. Teacher of History in the Shipley School, Bryn Mawr, and Student and Fellow by Courtesy in History, Bryn Mawr College, 1919-21.
- DUNN, ESTHER CLOUDMAN, *Bryn Mawr Travelling Fellow.*
Portland, Me. A.B., Cornell University, 1913. Lecturer in English, Maine State Summer School, 1914. Graduate Student in English, Bryn Mawr College, 1915-17; appointed Fellow in English, 1917-18; Instructor in English Composition, 1917-19, 1920-21 and Acting Director of the Work in First and Second Year English Composition, 1917-19; Graduate Student, Bedford College and University of London, 1919-20, 1921-22.
- BRYNE, EVA ALICE WORRALL, *Bryn Mawr Travelling Fellow.*
Philadelphia. A.B., Bryn Mawr College, 1916, and M.A., 1917. Graduate Scholar, Bryn Mawr College, 1916-17; Reader in English Literature and Graduate Student, Bryn Mawr College, 1917-19; Teacher of English, Bryn Mawr School, Baltimore, 1919-21; Graduate Student, Johns Hopkins University, 1919-21; Research Work in English, British Museum, London, 1921-22.
- RIGGS, GLADYS EVELYN, *Fellow in Latin.*
Cando, N. Dak. A.B., University of Wisconsin, 1920. Graduate Student, University of Wisconsin, 1920-21.
- SCUDDER, NITA EMELINE, *Fellow in English.*
Oxford, Ohio. B.S., Miami University, 1920. Graduate Scholar in English, 1920-21.
- GILMAN, MARGARET, *Fellow in French.*
Wellesley, Mass. A.B., Bryn Mawr College, 1919, and M.A., 1920. Graduate Scholar in French, 1919-20.
- DIELMANN, RETA HAZEL, *Fellow in History.*
Winfield, Kans. A.B., University of Kansas, 1917, and M.A., 1920. Instructor in History in the High School, Pratt, Kans., 1917-19, and in the Kansas State Agricultural College, Manhattan, Kans., 1920-21; Graduate Student, University of Kansas, 1919-20.
- MILLARD, MAUDE LOVELL, *Fellow in Economics and Politics.*
San Francisco, Calif. A.B., University of California, 1920, and M.A., 1921. Teacher in the Girls' Classical School, Boston, Mass., 1901-02, in Bishop's School, La Jolla, Calif., 1917-18; Teacher in Drier's Coaching School, San Francisco, 1920.
- MEREDITH, LOIS ANGELINA, *Fellow in Social Economy and Social Research.*
Minneapolis, Minn. A.B., Grinnell College, 1919. Teacher, Nashua, Ia., 1919-20; Robert G. Valentine Scholar in Social Economy, 1920-21.

* Fellowship deferred.

- GALSTER, AUGUSTA EMILE, *Grace H. Dodge Fellow in Industrial Relations*.
Tower Hill, Ill. A.B., University of Illinois, 1918, and M.A., 1920. Grade Teacher in
Schools, 1905-17; Research Assistant to President David Kinley, 1918-20; Graduate
Student, University of Illinois, 1918-20; Instructor in Economics, University of Illinois,
1920-21.
- NICOLSON, MARGARET ERSKINE, *Fellow in Philosophy*.
Oradell, N. J. A.B., Barnard College, 1920; M.A., Bryn Mawr College, 1921. Graduate
Scholar in Philosophy, 1920-21.
- STUTSMAN, RACHEL, *Fellow in Psychology*.
Detroit, Mich. A.B. University of Missouri, 1919. Graduate Student, University of
Chicago, 1920-21; Statistician, Kansas City, Mo., Provident Association, 1916-17;
and Visitor (Charity), 1919-20.
- NELSON, GRACE WANDELL, *Fellow in Classical Archaeology*.
Philadelphia. A.B., Wellesley College, 1917. Graduate Student, Wellesley College,
1917-18; Graduate Scholar in Classical Archaeology, Bryn Mawr College, 1918-19,
and Fellow in Classical Archaeology, 1920-21.
- FRANKLIN, ALICE DARC, *Fellow in History of Art*.
New York City. A.B., Barnard College, 1916. Graduate Scholar in History of Art,
Bryn Mawr College, 1916-18; Columbia University School of Architecture, 1918-19;
Instructor in Art and Archaeology, Wells College, 1919-21.
- LEHR, ANNA MARGUERITE MARIE, *Fellow in Mathematics*.
Baltimore, Md. A.B., Goucher College, 1919. Reader and Graduate Student in Mathe-
matics, Bryn Mawr College, 1919-21.
- GUTHRIE, MARY JANE, *Fellow in Biology*.
Columbia, Mo. A.B., University of Missouri, 1916, and A.M., 1918. Assistant in Zoölogy,
University of Missouri, 1916-18; Honorary Scholar and Assistant Demonstrator in
Biology, Bryn Mawr College, and Demonstrator, 1919-21.
- GOLDSTEIN, HELEN FRANCES,
Helen Schaeffer Huff Memorial Research Fellow in Chemistry.
New York City. B.S., Barnard College, 1918. Graduate Scholar in Chemistry, Bryn
Mawr College, 1918-19, and Fellow in Chemistry, 1919-21.
- BARNICLE, MARY ELIZABETH,
Fellow by Courtesy and Graduate Scholar in English.
Providence, R. I. A.B., Brown University, 1913. Teacher in Evening School, Provi-
dence, 1910-11; Graduate Scholar in English, Bryn Mawr College, 1913-15, 1916-17;
Fellow in English, 1915-16, and Fellow by Courtesy in English, 1916-17; Instructor
in English, Connecticut College for Women, 1917-20, and in the University of Minne-
sota, 1920-21.
- BUCHANAN, MARGARET, *Fellow by Courtesy in Mathematics*.
Pittsburgh, Pa. A.B., University of West Virginia, 1906. Graduate Student, University
of West Virginia, 1907. Teacher of Mathematics, Marshall College, Huntington, W.
Va., 1906-07; Assistant in Greek and Mathematics, University of West Virginia, 1908-
09, and Instructor in Mathematics, 1910-12, 1915-18; Graduate Student in Mathematics,
Bryn Mawr College, 1912-14; Fellow in Mathematics, 1918-19; Teacher of Mathe-
matics, Baldwin School, Bryn Mawr, 1913-14; and in the High School, Parkersburg,
W. Va., 1914-15; President's European Fellow and Graduate Scholar in Mathematics,
Bryn Mawr College, 1919-20; Student in University of Paris, 1920-21.
- COBB, MARGARET CAMERON,
Fellow by Courtesy and Graduate Scholar in Geology.
Portsmouth, Va. A.B., North Carolina Normal College, 1912; A.B., Barnard College,
1915. Teacher in the Public Schools, Norfolk, Va., 1912-14; Student, Barnard College,
1914-15; Columbia University, 1915-16; Fellow in Geology, Bryn Mawr College, 1916-
17, 1919-20; Fellow by Courtesy and Graduate Scholar in Geology, 1920-21; Instructor
in Geology, Mount Holyoke College, 1917-19.
- FLATHER, MARY DRUSILLA, *Fellow by Courtesy in Biology*.
Lowell, Mass. Ph.B., Women's College in Brown University, 1917. Laboratory Assis-
tant in Comparative Anatomy, Brown University, 1916-17; Graduate Student in
Biology, Bryn Mawr College, 1917-18; Fellow in Biology, 1918-19; Instructor in
Zoölogy, Mount Holyoke College, 1919—; On leave of absence and Student in Paris
as Mary Elizabeth Garrett European Fellow, 1920-21.

- SMITH, ISABEL F., *Fellow by Courtesy in Geology.*
 Los Angeles, Calif. A.B., Bryn Mawr College, 1915, and M.A., 1919. Teacher in Miss Wheeler's School, Providence, R. I., 1915-17; Graduate Scholar in Geology, and Assistant Warden of Pembroke Hall, 1917-18, 1919-20; Fellow in Geology, Bryn Mawr College, 1918-19; Student in Paris as President's European Fellow, 1920-21.
- WOOD, HELEN FRANCES, *Graduate Scholar and Fellow by Courtesy in Latin.*
 South Hadley Falls, Mass. A.B., Mount Holyoke College, 1918, and A.M., 1920. Graduate Scholar in Latin, Bryn Mawr College, 1919-20.
- KELLY, THERESA KATHLEEN, *British Scholar.*
 Blackrock, Co. Dublin, Ireland. B.A. with Honours in Modern Languages, National University of Ireland, 1916; M.A. Bryn Mawr College, 1921. Examiner of Income Tax Claims, H. M. Civil Service and Examiner and Assessor of Deeds for Stamp Duties, Four Courts, Dublin, 1916-20; British Scholar, Bryn Mawr College, 1920-21.
- ROBBINS, RHODA, *British Scholar.*
 London, England. B.Sc., Liverpool University, 1913; Hons. B.Sc., First Class, 1913, and M.Sc., 1914. Lecturer in Science, Bingley Training College for Women, 1914-15; Assistant Inspector of Schools to Liverpool Education Authorities, 1915-18; Lecturer in Biological Sciences and Advanced Botany, Home and Colonial College, London, 1918—.
- WILDE, CONSTANCE ELIZABETH MARY, *British Scholar.*
 Uppermill, Yorkshire, England. B.Com., Victoria University of Manchester, 1919, and M.Com., 1920. Lecturer in Commerce Department, Huddersfield Technical College, 1919-21.
- GALLAND, JEANNE MARIE, *French Scholar.*
 Mazamet, France. Licenciée-ès-lettres "mention Anglais," 1920. Diplôme de fin d'Études secondaires, 1917. Student, Collège d'Albi, 1912-18; University of Montpellier, 1918-20; French Scholar, Bryn Mawr College, 1920-21.
- GUIGNON, GERMAINE, *French Scholar.*
 Saint-Julien-du-Sault, Yonne, France. Brevet Supérieure et Diplôme de fin d'Études, Collège Sévigné, Paris, 1913, 1914; The Sorbonne, 1915-17; St. Hugh's Hall, Oxford, England, 1917-18; The Sorbonne, 1918-19. Certificat d'aptitude à l'enseignement d'Anglais, 1917.
- BORRESEN, MARGIT ANDREA SAHLGAARD, *Scandinavian Scholar.*
 Christiania, Norway. Student, University of Christiania, 1914-18; *Cand. Mag.*, 1918; Teacher in High School for Girls, Trondhjem, 1903-10; in the Communal High School, Fredrikstad, 1910-14; in the Communal High School, Christiania, 1914-19; Lektor at Christiania Communal School and College, 1919-21.
- CAÑOMERAS, MARIA LUISA, *Spanish Scholar.*
 Barcelona, Spain. University of Barcelona, 1910-20; *Licenciado en Farmacia*, 1920. Graduate Student, Pepper Laboratory, University of Pennsylvania, 1921-22.
- TAPIA, MARIA LORETA ROBSON, *Spanish Scholar.*
 Madrid, Spain. Instituto de San Isidro, 1913-16; Medical Student, University of Madrid, 1918-21; Graduate Student, University of Pennsylvania, 1921-22.
- ALBERTSON, ALICE OWEN, *Biology.*
 Philadelphia. A.B., Bryn Mawr College, 1902. Graduate Student, University of Munich, 1910. Teacher in the Friends' Select School, Philadelphia, 1092-11, 1916-19; Teacher in Miss Cruice's School, 1911-15; Curator, Nantucket Maria Mitchell Association, 1914—.
- ANDRÉ, LOUISE MARIE, *Psychology.*
 Blois, France. Student, University of Poitiers, 1914-16; *Licence ès Lettres*, 1916; Teacher in the Lycée de Guéret, France, 1916-18; in the High School, Rockford, Ill., 1919-21; in the Shipley School, Bryn Mawr, 1921—.
- BARRETT, HELEN JUANITA, *Italian and Education.*
 A.B., Bryn Mawr College, 1913. Worker in Industrial Department of the Y. W. C. A., Philadelphia, 1913-14; General Secretary Y. W. C. A., Meadville, Pa., 1914-15; General Secretary of the Y. W. C. A., Norristown, 1915-17; Y. W. C. A. Worker in Munitions Plant, Bloomfield, N. J., 1918—; Director of Community Centre, Bryn Mawr, Pa., 1919-21.

- BATES, THEODORA HASTINGS, *Social Economy and History of Art.*
 A.B., Bryn Mawr College, 1905, and A.M., 1907. Graduate Student, Bryn Mawr College, 1905-06; Teacher of French and German in the Friends' Academy, New Bedford, Mass., 1906-08; Student in Paris, 1908-09; Instructor in English, History and Gymnastics in the Holton-Arms School, Washington, D. C., 1910-11; Teacher of French in Miss Madeira's School, Washington, 1910-12; Teacher of English in the Misses Hebb's School, Wilmington, Del., 1914, 1916-17, and in the Shipley School, Bryn Mawr, 1917-18; Red Cross Worker, New York City, 1918-20.
- BEARDWOOD, ALICE, *History.*
 Philadelphia. A.B., Bryn Mawr College, 1917. Teacher of Latin and Mathematics, Flagler School, Jacksonville, Fla., 1918-19, Southfield Point School, Stamford, Conn., 1919-20, and Academic Head and Teacher of History, Devon Manor, Devon, Pa., 1920—.
- BEATTY,* ELSIE MARGARET FLEMING, *English and History.*
 Philadelphia. A.B., Monmouth College, 1919. Teacher of English and Principal of the High School, Barneston, Neb., 1919-21.
- BECK, MARGARET MILNE, *English.*
 New York City. A.B., Vassar College, 1919, and M.A., Columbia University, 1921. Teacher in the Baldwin School, Bryn Mawr, 1921—.
- BERTCH, DOROTHY MAXWELL, *Graduate Scholar in Social Economy.*
 Liberty, Ind. A.B., Miami University, 1921.
- BORN, THERESE MATHILDE, *English.*
 Indianapolis, Ind. A.B., Bryn Mawr College, 1918. Graduate Scholar in English, Bryn Mawr College, 1918-19; and Fellow in English, 1919-20; Mary E. Garrett European Fellow and Student in London, 1920-21.
- BROWN, VERA LEE, *History.*
 Centreville, New Brunswick, Canada. B.A., McGill University, 1912, and M.A., 1913. Graduate Scholar in History, Bryn Mawr College, 1913-14; President's European Fellow, 1914-15; Graduate Scholar and Fellow by Courtesy in History, 1914-15; Assistant to Professor of History, McGill University, 1912-13, Assistant to the Warden of Pembroke Hall, March to June, 1916; Sessional Lecturer, Department of History, McGill University, 1916-20; Private Research Work at Public Record Office and British Museum, London, 1920-21.
- CARPENTER,† ELEANOR HOUSTON HILL, *Greek and Music.*
 Bryn Mawr, Pa. A.B., Bryn Mawr College, 1916. Administrative Assistant, Ordnance Department, Washington, 1918-19.
- CAUGHEY, MARY LAPSLEY, *Graduate Scholar in English.*
 Sewickley, Pa. A.B., Vassar College, 1921.
- CERS, EDNA, . . . *Susan B. Anthony Scholar in Social Economy and Politics.*
 Cambridge, Mass. A.B., Radcliffe College, 1921.
- CHADWICK COLLINS,‡ CAROLINE MORROW, *English and Law.*
 Bryn Mawr, Pa. A.B., Bryn Mawr College, 1905.
- CHALKLEY, LYSSA DESHA, *Red Cross Scholar.*
 Lexington, Ky. Ph.B., University of Chicago, 1920. Teacher in the Public Schools, Lexington, 1920-21.
- CLARK, ELEANOR GRACE, *English.*
 Portland, Ore. A.B., Oberlin College, 1918, and M.A., 1919. Teacher of English in St. Helen's Hall, Portland, O., 1918-20.
- CLARK, ELIZABETH MORRIS, *French and German.*
 Brooklyn, N. Y. Special Student, Bryn Mawr College, 1891-92; LL.A. with Honours, University of St. Andrews; Student at the Universities of Zurich, Leipsic, and Geneva, 1892-94; Lecturer in English and History, Huguenot College, South Africa, 1900-02, and Professor of English and German, 1904-06; Travelling Secretary, Y. W. C. A., 1908-09; Secretary in Switzerland in World's Christian Student Federation, 1909-15, and War Relief Worker, 1914-20.

* Mrs. John M. Beatty.

† Mrs. Rhys Carpenter.

‡ Mrs. J. C. Chadwick Collins.

- COOPER, ELIZABETH MORGAN, *Mathematics.*
Syracuse, N. Y. A.B., Radcliffe College, 1913. Teacher of Mathematics in the Baldwin School, Bryn Mawr, Pa., 1913—.
- CRAIGMILE, MARY DELIGHT, *Graduate Scholar in Mathematics.*
Knox, Ind. A.B., University of Illinois, 1918. Teacher of Mathematics in the High School, Champaign, Ill., 1918-20; Graduate Scholar in Mathematics, 1920-21.
- CRAWFORD, MARY SINCLAIR, *French.*
Philadelphia. A.B., Wilson College, 1903. Teacher in the Barber Memorial Seminary, Anniston, Ala., 1903-05; and in the Misses Timlow's School, Washington, D. C., 1906; Founder and Co-Principal and Head of French Department, King-Crawford Classical School, Terre Haute, Ind., 1906-16; Dean and Head of French Department, Girton School, Winnetka, Ill., 1916-18; Executive Secretary, Department of Women in Industry of Pennsylvania Council of National Defense, 1918-19; Community Organizer for War Camp Community Service, 1919; Graduate Student, University of Pennsylvania, 1918-19, 1920-21; Instructor in French, Bryn Mawr College, 1919-21; Assistant to the Head Mistress, Phebe Anna Thorne School, and Teacher of French, 1921-22.
- DONG, NYOK ZOE, *Graduate Scholar in Social Economy.*
Shanghai, China. Ginling College, 1916-18. A.B., Smith College, 1920. Scholar of the Chinese Educational Mission, 1920—; Graduate Scholar in Social Economy, Bryn Mawr College, 1920-21.
- DOWD, CONSTANCE ELEANOR, *Education.*
New York City. A.B., Bryn Mawr College, 1916. Clerk, Ordnance Bureau, War Department, 1918-19; Assistant to Director of Athletics and Gymnastics, Bryn Mawr College, 1919—, and Graduate Student, 1919—.
- EARLY, NINA LOUISE, *Graduate Scholar in History.*
Nashville, Tenn. B.S., Vanderbilt University, 1914, and M.S., 1915. Teacher in the High School, Clarksville, Tenn., 1915-19; Fellow in History, Bryn Mawr College, 1919-21.
- FELTS, JOSEPHINE NOYES,
Robert G. Valentine Scholar in Social Economy and Social Research.
Portland, Ore. A.B., Reed College, 1921.
- GARDINER, MARY SUMMERFIELD, *Italian and Education.*
Brasted Chart, Kent, England. A.B., Bryn Mawr College, 1918. Information Secretary, Y. W. C. A. Hostess House, Camp Mills, L. I., 1918-19; Secretary and Social Worker, Henry Street Settlement, New York City, 1920-21; Warden of Denbigh Hall, Bryn Mawr College, 1921-22.
- GASKILL, HELEN GERTRUDE, *English.*
Bala, Pa. A.B., Swarthmore College, 1918. Student, University of Pennsylvania, 1918-19; Teacher of English, Camp Dix Military Hospital, 1918; Assistant Teacher of English in the Shipley School, Bryn Mawr, 1919-21.
- HASKELL, MARGARET KINGSLAND, *Greek.*
Chicago, Ill. A.B., Bryn Mawr College, 1916. Graduate Student, University of Chicago, 1917; American Red Cross Civilian Relief Work, 1918-19. Reader in English, Bryn Mawr College, 1921-22.
- HAIGH, EMMA M., *Spanish.*
Ardmore, Pa. B.S., Teachers College, Columbia University, 1909, and M.A., University of Pennsylvania, 1911. Teacher of German in the Friends' Central School, Philadelphia, 1901-03, in the Trenton Normal School, Trenton, N. J., 1903-08, in the Girls' High School, Philadelphia, 1909-12, and of German and Spanish in the Girls' High School, West Philadelphia, 1912—.
- HEALEA, MONICA, *Graduate Scholar in Physics.*
New Philadelphia, Ohio. A.B., Bryn Mawr College, 1920. Teacher of Mathematics and Science in the Phebe Anna Thorne Model School, 1920-21.
- HODSON, FERN, *Earlham College Scholar.*
New Castle, Ind. A.B., Earlham College, 1921.
- HOLLINGER, HELEN ELIZABETH, *Graduate Scholar in Spanish.*
Trenton, N. J. A.B., Vassar College, 1921.

- HUNT, * ELIZABETH PINNEY, *Social Economy*.
Haverford, Pa. A.B., Bryn Mawr College, 1912. Student in Training School, Bureau of Municipal Research, New York City, 1912-13; Legislative Reference Assistant and General Investigator, Office of National Progressive Service, New York City and Boston, 1913-14; Volunteer Social Worker, 1916-17; Graduate Student, Bryn Mawr College, 1918-20; Graduate Student, University of Stockholm, 1920-21.
- HURLOCK, ELIZABETH BERGNER, *Psychology and Education*.
Philadelphia. A.B., Bryn Mawr College, 1919. Teacher in the Manor School, Larchmont Manor, N. Y., 1919-20, and in Springside, Chestnut Hill, Philadelphia, 1920-21.
- INGRAHAM, HELEN, *Biology*.
La Harpe, Ill. B.S., Knox College, 1918; M.S., University of Chicago, 1921. Teacher in the High School, Lewistown, Ill, 1918-20; Graduate Student, University of Chicago, 1920-21.
- JONES, ANNE CUTTING, *French*.
Des Moines, Ia. A.B., Grinnell College, 1918. Teacher in the High School, Cherokee, Ia., 1918-19; Head of Department of Romance Languages, Cottey College, Nevada, Mo., 1919-21.
- KLEINAU, † THELMA WILLIAMS, *Psychology*.
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1921. Demonstrator in Experimental Psychology, 1921-22.
- KLEPS, MARIAN CLEMENTINE, *Mathematics*.
Ardmore, Pa. A.B., Bryn Mawr College, 1916, and Bryn Mawr European Fellow. Assistant to the Recording Secretary, Bryn Mawr College, 1916-17; Reader in Mathematics, 1917-18, 1921-22; Assistant to the Secretary and Registrar, Bryn Mawr College, 1918-21.
- LADD, MARGARET RHOADS, *Graduate Scholar in Psychology*.
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1921.
- LITZINGER, MARIE PAULA, *Mathematics*.
Bedford, Pa. A.B., Bryn Mawr College, 1920. James E. Rhoads Sophomore Scholar, 1917-18; First Charles S. Hinchman Memorial Scholar, 1918-19; Maria L. Eastman Brooke Hall Memorial Scholar and Anna M. Powers Memorial Scholar, 1919-20; Bryn Mawr European Fellow and Shippen Foreign Scholar, 1920-21. Teacher in Devon Manor School, Devon, Pa., and Graduate Student in Mathematics, Bryn Mawr College, 1920-21.
- LUBIN, GRACE, *Chemistry*.
Pittsburgh, Pa. A.B., Bryn Mawr College, 1921.
- MICHAELS, MARY LOUISE, *English and History*.
San Francisco, Calif. A.B., University of California, 1921.
- MILNE, MARJORIE JOSEPHINE, *Music*.
Duluth, Minn. A.B., Bryn Mawr College, 1917, and A.M., 1918. Graduate Scholar in Greek, Bryn Mawr College, 1917-18, Fellow in Greek, 1918-19, and Fellow in Latin, 1919-20. Private Tutor, 1920-22.
- MONROE, MARGARET MONTAGUE, *Psychology*.
Asheville, N. C. Barnard College, Columbia University, 1911-13. A.B., Mount Holyoke College, 1915. Scholar in Psychology, Bryn Mawr College, 1916-17, and Fellow in Psychology, 1918-20.
- NOBLE, MARY ANNGENNETTE, . . . *Graduate Scholar in Romance Languages*.
Westfield, Mass. A.B., Bryn Mawr College, 1921.
- NOEL, RACHEL BERTHE IRENE, *French*.
Bryn Mawr, Pa. Lycée Sévigné, 1905-08. Brevet Supérieur, 1908; Certificat d'aptitudes Pédagogiques, 1908. Teacher in Thurston School, Pittsburgh, Pa., Washington Seminary, Washington, Pa., and the Shipley School, Bryn Mawr, Pa.
- NORRIS, HAZEL ESTHER, *Penn College Scholar*.
Oskaloosa, Ia. A.B., Penn College, 1921.

* Mrs. Andrew Dickson Hunt.

† Mrs. Glenn Reichert Kleinau.

- O'SULLIVAN, MARY ISABELLE,.....*English*.
Philadelphia. A.B., Bryn Mawr College, 1907. New York State Library School, 1915-16.
Private Tutor and Night Librarian, Drexel Institute, 1908-09; Indexer, Estate of Stephen
Girard, 1909-15; Cataloguer, New York Public Library, 1916-17; Graduate Scholar
in English Composition, Bryn Mawr College, 1917-18, and Cataloguer, Bryn Mawr
College, Library, 1918—.
- PRESTON, ARLINE FEARON,.....*Graduate Scholar in Philosophy*.
Fallston, Md. A.B., Bryn Mawr College, 1920. Graduate Scholar in Philosophy, 1920-21.
- RHYS, MARY,.....*English*.
Tarrant-Gunville, Blandford, Dorset, England. M.A., with Honours in English, Glasgow
University, 1915. British Scholar, Bryn Mawr College, 1915-16. Graduate Student,
Bryn Mawr College, 1916-17; Literary Work in New London, Conn., 1917-18; in
Minneapolis, Minn., 1920-21; Teacher in Public Schools, New London, 1917-19;
Principal of Ottawa Ladies' College, Ottawa, Canada, 1919-20.
- RUSSELL, MARGUERITE,.....*Education*.
A.B., Wellesley College, 1912. Harvard Summer School, 1915, 1916; Teachers' College,
Columbia University, 1921. Teaching in Schools, 1912-20.
- SCHAUPP, ZORA,.....*Psychology*.
Lincoln, Neb. A.B., University of Nebraska, 1919, and M.A., 1921.
- SCHOENFELD, MARGARET HERTHA,....*Graduate Scholar in Social Economy*.
Washington, D. C. A.B., George Washington University, 1918, and M.A., 1920. Assis-
tant Field Agent, Interdepartmental Social Hygiene Board, January to June, 1921.
- SCHRADER, SALLY HUGHES,.....*Biology*.
Bryn Mawr, Pa. Pacific University, 1913-15; B.S., Grinnell College, 1917. Instructor
in Zoology, Grinnell College, 1918-19, and Lecturer in Zoölogy, Barnard College, 1920-21.
- SHACKELFORD, PEMALA HARRISON,
.....*Grace H. Dodge Scholar in Social Economy*.
Kansas City, Mo. A.B., University of Missouri, 1921.
- SHELDON, BEULAH,.....*French*.
Chicago, Ill. A.B., University of Chicago, 1920.
- SHIPLEY, AGNES DOROTHY,.....*English and French*.
Philadelphia. A.B., Bryn Mawr College, 1917; M.A., Columbia University, 1921. Resi-
dent Nurse, Pennsylvania Hospital, 1918-19; Graduate Student, Sorbonne, Paris, 1919.
Worker in American Committee for Devastated France, April-October, 1919. Field
Secretary, American Committee of International Federation of University Women,
February to June, 1921; Warden of Pembroke West, Bryn Mawr College, 1921-22.
- SMILOVITZ, RACHEL LILIAN,....*Graduate Scholar in Economics and Politics*.
Quebec, Canada. B.A., University of Toronto, 1921.
- SMITH, GERALDINE FRANCES,.....*Graduate Scholar in Social Economy*.
Frankfort, Ind. B.S., Purdue University, 1921.
- TENNEY, MARY FRANCES,.....*Greek, Latin, and German*.
Atlantic City, N. J. A.B., Oberlin College, 1917. Teacher of English and Latin in Ward
Academy, Academy, S. Dak., 1917-18; Lindstrom, Minn., 1918-19; St. Helen's Hall,
Portland, Ore., 1919-20.
- WALDER, EMMI,.....*Swiss Industrial Scholar in Social Economy*.
Männendorf, Switzerland. University of Zurich, Summer Semester, 1919, University of
Berne, 1919-20.
- WALLACE, ISABEL KING,.....*Grace H. Dodge Scholar in Social Economy*.
Rochester, N. Y. A.B., University of Rochester, 1916. Factory Experience in Art in
Butters, 1916-18, and Director of Service Department, 1919-21.

- WATSON, AMEY EATON, *Psychology and Statistics*.
Haverford, Pa. A.B., Women's College in Brown University, 1907; A.M., University of Pennsylvania, 1910.
- WIESMAN, MARGARET, *Psychology*.
Clinton, Mass. A.B., Bryn Mawr College, 1921. Demonstrator in Applied Psychology, 1921-22.
- WILLBRAND, IRMA LOUISE, *Graduate Scholar in Romance Languages*.
St. Charles, Mo. A.B., University of Missouri, 1921; B.S. in Education, 1920. Teacher of French, Stephens College, Columbia, Mo., 1919-20, and in the University of Missouri, September to December, 1920.
- WILLIAMS, ADA GRISWOLD, *Graduate Scholar in Social Economy*.
Oshkosh, Wis. A.B., University of Wisconsin, 1921.
- WOLFF, MABEL PAULINE, *History*.
Myerstown, Pa. A.B., Barnard College, 1905, and A.M., Columbia University, 1915. Teacher, Public School, Patton, Pa., 1905-06, Allentown College for Women, 1906-07, Paulsboro High School, Gloucester City, N. J., 1907-11, Washington Seminary, Washington, Pa., 1911-14, and Leominster High School, Leominster, Mass., 1915-16.
- WYCKOFF, DOROTHY, *Chemistry and Geology*.
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1921.

SUMMARY OF FELLOWSHIPS AWARDED.

EUROPEAN FELLOWSHIPS.		Founded by	Date.	Number of Holders.
Bryn Mawr (for Senior Class)		The Trustees	1885	33
Mary Elizabeth Garrett (for second year graduates)		Miss Garrett	1894	28
President M. Carey Thomas (for first year graduates)		Miss Garrett	1896	29
Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology		Mrs. Anna Woerishoffer	1907	8††
Bryn Mawr Travelling Fellowship		Anonymous Donor	1920	3
SPECIAL EUROPEAN FELLOWSHIPS.		Given by.		
Bryn Mawr Research		Anonymous Donor	1906	1
Special European		Anonymous Donor	1909	1
Special European		Anonymous Donor	1915	1
Special European		Anonymous Donor	1916	1
Total number of European Fellows, omitting duplicates				98‡
RESIDENT FELLOWSHIPS.		Founded by the Trustees in		Number of Holders.
In Greek	1885			31**††
In Latin	1892			29
In English	1885			33*§
In Teutonic Philology	1893			18††
In Romance Languages	1893			20††
In Semitic Languages	1912			3††
In History or Economics and Politics	1885			32††
In Economics and Politics	1912			7††
In Social Research	1915			11††
In Philosophy or Psychology	1896			17§§
In Psychology	1910			6§
In Education	1917			4
In Archæology	1909			6††
In History of Art	1920			1
In Mathematics	1885			28††
In Physics	1896			13
In Chemistry	1893			22***
In Geology	1912			7
In Biology	1885			28††
Research Fellowship in Chemistry	1907			3†
Helen Schaeffer Huff Research Fellowship in Physics or Chemistry, founded by an anonymous donor in 1913				5¶§
Total number of Resident Fellows, omitting duplicates				323
Total number of Fellowships awarded, omitting duplicates				421‡

* Two students have held Fellowships in English who also held Fellowships in other subjects.

† Two of these students previously held a Fellowship in Chemistry.

‡ Of these fifty-six have held both European and Resident Fellowships.

§ One student held this Fellowship for two years.

** One of these students previously held a Fellowship in Latin and one a Fellowship in English.

†† Two students held this Fellowship for two years.

‡‡ Three students held this Fellowship for two years.

§§ Four students held this Fellowship for two years.

*** Five students held this Fellowship for two years.

¶ One of these students previously held a Fellowship in Chemistry, one held a Fellowship in Physics.

BRYN MAWR COLLEGE.

GRADUATE COURSES OF INSTRUCTION.

BRYN MAWR COLLEGE, situated at Bryn Mawr, Pennsylvania, five miles from Philadelphia, was endowed by Dr. Joseph W. Taylor of Burlington, New Jersey, who died January 18, 1880. By his will he left the greater portion of his estate for the purpose of establishing and maintaining an institution of advanced learning for women. In the spring of 1885 the first program was issued, and the College opened for instruction in the following autumn.

Three classes of persons are admitted to the lectures and class work of the College—graduate students, undergraduate students, and hearers. For the convenience of graduate students the regulations of the graduate department and the graduate courses of instruction are published separately. No undergraduates are admitted to graduate courses.

Regulations of the Graduate Department.

From the first it has been the policy of the Trustees of Bryn Mawr College to organize no department in which they could not provide for graduate as well as undergraduate study. Only such instructors have been chosen as are qualified to direct both graduate and undergraduate work. In each department a consecutive series of graduate courses pursued throughout three years provides preparation in the chief or major subject of the examination for the degree of Doctor of Philosophy, and certain courses may be pursued for one or two years and offered as one of the two minor or secondary subjects.

Admission.

Graduate students must have presented a diploma from some college of acknowledged standing.* They may pursue any courses offered by the College for which their previous training

* The certificates of the women's colleges of the English Universities of Oxford and Cambridge are regarded as equivalent to a first degree,—i. e., to the degree of Bachelor of Arts.

has fitted them; but they must satisfy the several instructors of their ability to profit by the courses they desire to follow, and may be required to pursue certain introductory or auxiliary studies before they are admitted to the advanced or purely graduate courses. They are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations from the instructors, and their needs will be considered in the arrangement of new courses of lectures; they must consult the President in regard to the courses they are to pursue, and must be duly registered for those courses at the President's office.

A reading knowledge of French and German is regarded as of the utmost importance to all graduate students, and is required of all candidates for a second degree. The undergraduate department will afford the student every opportunity for making good any deficiencies in this respect.

Fellowships and Scholarships.

The most distinguished place among the graduate students is held by the Fellows, who must reside in the college during the academic year. Twenty resident fellowships, of the value of eight hundred and ten dollars each, are awarded annually in Greek, Latin, English, Romance Languages, Semitic Languages and Biblical Literature, History, Philosophy, Psychology, Education, Archæology, History of Art, Mathematics, Physics, Chemistry, Geology, and Biology, in Economics and Politics, named the Justus C. Strawbridge Fellowship, and two in Social Economy and Social Research, the Carola Woerishoffer Fellowships, and one Grace H. Dodge Memorial Fellowship in Social Economy in preparation for Industrial Relations and Personnel Administration. They are open for competition to graduates of Bryn Mawr College, or of any other college of good standing, and will be awarded only to candidates who have completed at least one year of graduate work after obtaining their first degree. The fellowships are intended as an honour, and are awarded in recognition of previous attainments; generally speaking, they will be awarded to the candidates that have studied longest or to those whose work gives most promise of future success.

The holder of a fellowship is expected to devote at least one half her time to the department in which the fellowship is awarded, and to show, by the presentation of a thesis or in some other manner, that her studies have not been without result.

The Helen Schaeffer Huff Memorial Research Fellowship founded in 1913, is awarded annually to a student desiring to carry on research in either Physics or Chemistry, to be held during one year's work at Bryn Mawr College. The value of the Fellowship in 1922-23 will be twelve hundred dollars.

Applicants for this fellowship must be students who have done advanced graduate work at Bryn Mawr College or at other colleges or universities and have shown capacity for research. The award of the fellowship will depend primarily upon the record of the applicant as a research student. Where equally good candidates are considered, preference will be given to a student working on problems which may be considered to lie along the borderline between Chemistry and Physics. The fellowship may under exceptional circumstances be awarded in consecutive years to the same student, or the fellowship may be given to a graduate student studying at Bryn Mawr College to be held during one year's work at some other American college or university if in the opinion of the Committee it is imperative for that student to go to some other college or university in order to complete an important piece of investigation.

All fellows may study for the degree of Doctor of Philosophy, the fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Fellows that continue their studies at the College after the expiration of the fellowship, may, by a vote of the directors, receive the rank of Fellows by Courtesy.

Fellows are expected to attend all college functions, to wear academic dress, to assist in the conduct of examinations, and to give about an hour a week to the care of departmental libraries in the seminars and in the halls of residence, but no such service may be required of them except by a written request from the president's office; they are not permitted, while holding the fellowship, to teach, or to undertake any other

duties in addition to their college work. Fellows* are required to reside in the college and are assigned rooms by the Secretary of the College. They are charged the usual fee of seven hundred and ten dollars for tuition, board, room-rent, and infirmary fee.

A resident Intercollegiate Community Service Association and Bryn Mawr College joint fellowship† was established in 1915 and is offered by the Intercollegiate Community Service Association and by some alumnae of Bryn Mawr College to a Bryn Mawr College graduate who wishes to prepare herself for settlement work. The value of the fellowship is \$650, \$200 of which is given by the College to meet the tuition fee. The holder of the fellowship is required to live in the College Settlement in Philadelphia and to give her entire time to the work of the Department of Social Economy. There is a charge of \$7.00 a week for board and lodging in the Settlement and in addition to the usual charge of \$200 for the graduate tuition fee in Bryn Mawr College, the usual laboratory and transportation fees. Applications may be sent to the President of Bryn Mawr College.

Two additional joint fellowships of the value of \$450 are offered by the Intercollegiate Community Service Association in conjunction with Smith College and Wellesley College, to graduates of Smith College and Wellesley College, respectively, who wish to prepare themselves for community service. These fellowships may be held in connection with the College Settlement of Philadelphia.

Twenty Graduate Scholarships, of the value of three hundred and fifty dollars each, may be awarded to candidates next in merit to the successful candidates for the fellowships; they are also open for competition to graduates of Bryn Mawr College, or of any other college of good standing. Scholars* are expected to reside in the College, to attend all College functions,

* It is expected that fellows and scholars of the college will uphold the college standards of scholarship and conduct and give loyal support to the Students' Association for Self-Government.

† The term fellowship is used here because adopted by the Intercollegiate Community Service Association. The condition of one year's graduate study required of candidates for Bryn Mawr College resident fellowships does not apply.

to wear academic dress, and to assist in the conduct of examinations. They may undertake, while holding the scholarship, only a very limited amount of teaching or other paid work approved in advance by the President's office.

The Susan B. Anthony Memorial Research Scholarship in Social Economy and Social Research or in Politics, of the value of five hundred and fifty dollars, was founded in 1910 by the Executors of the late Susan B. Anthony, the late Dr. Anna Howard Shaw and Miss Lucy E. Anthony, in memory of Susan B. Anthony's work for women's college education. It is awarded to the candidate wishing to devote herself to studies dealing with the position of women in industry and politics whose work shows most promise of future success. The holder is required to complete for publication a study in one or the other of these subjects.

The Robert G. Valentine Memorial Scholarship in Social Economy and Social Research of the value of four hundred dollars is offered by Mrs. Frank W. Hallowell of Chestnut Hill, Massachusetts, to be awarded by the President and Faculty of Bryn Mawr College on the recommendation of the Director of the Carola Woerishoffer Department of Social Economy and Social Research to a candidate approved by the donor. It is open to graduates of Bryn Mawr College or of any other college of good standing.

Seven Grace H. Dodge Memorial Scholarships in Social Economy in preparation for Industrial Relations and Personnel Management, on the Grace H. Dodge Foundation of the value of four hundred dollars each, are offered in the Carola Woerishoffer Department of Social Economy, open for competition to graduates of Bryn Mawr College or of any other college of good standing.

Two Scholarships in Community Organization, each of the value of four hundred dollars, are offered in the Department of Social Economy and Social Research. Holders of these scholarships are expected to carry on their field work in the Bryn Mawr Community Center.

Several Graduate Scholarships in Social Economy in preparation for Red Cross Service, of the value of five hundred dollars

with loan privileges for an additional two hundred and fifty dollars, have been offered by the American Red Cross for the year 1921-22 and are open for competition to graduates of Bryn Mawr College or of any other college of good standing. Holders of these scholarships are expected to accept a position under the American Red Cross for at least one year after the completion of training.

Nine graduate scholarships for foreign women of the value of seven hundred and twenty dollars each are available for distribution to women students belonging to the following countries: England, France, Spain, Italy, Switzerland, Holland, Norway and Sweden. In general at least three will be awarded to British and three to French women and one or two to Spanish women. They are open for competition to all women of the prescribed nationality whose academic work has reached a standard equivalent to that denoted by the Bachelor's degree of an American college or university of acknowledged standing. Renewal of these scholarships for a second year will not be granted except in very exceptional cases.

Holders of the scholarships are required to be in continuous residence at the college and to follow regular approved courses of study. The scholarships are of the value of \$720 and cover only the fees for board, residence, and tuition at Bryn Mawr College for one academic year. In addition those holders of scholarships who so desire will, if possible, be given an opportunity to teach or do some other kind of work in the College for not more than five hours a week and in special cases when tutoring can be arranged for five hours a week throughout the year the sum earned may amount to from \$100 to \$200. The scholars are not permitted to accept any paid position except as arranged by the College. Holders of the scholarships must meet their own travelling expenses. A furnished single room in the graduate wing of one of the halls of residence is assigned to each scholar, but this is not available in the Christmas and Easter vacations when scholars who remain at the college have to pay the expenses of board and residence.*

Application for resident fellowships or scholarships should be

* For the rates see page 43.

made as early as possible to the President of the College,* and must be made not later than the first of April preceding the academic year for which the fellowship or scholarship is desired. Blank forms of application will be forwarded to the applicants. A definite answer will be given within about two weeks from the latest date set for receiving applications. Any original papers, printed or in manuscript, which have been prepared by the applicant and sent in support of her application, will be returned, when stamps for that purpose are enclosed, or specific directions for return by express are given. Letters or testimonials from professors and instructors will be filed for reference.

The Anna Ottendorfer Memorial Research Fellowship in German and Teutonic Philology of the value of seven hundred dollars applicable to the expenses of one year's study and residence at some German university is awarded annually to a graduate student who has completed at least one year of graduate study at Bryn Mawr College. The fellowship will be awarded to the candidate who has pursued the most advanced work, or whose studies afford the most promise of future success. She must show such proficiency in her studies or in independent work as to furnish reason to believe that she will be able to conduct independent investigations in the field of Teutonic Philology or German.

Two European fellowships, founded by the late Miss Mary Elizabeth Garrett, of Baltimore, are open to graduate students who are enrolled as candidates for the degree of Doctor of Philosophy. One, founded in 1896, and named by the donor the President M. Carey Thomas Fellowship, is awarded annually on the ground of excellence in scholarship to a student in her first year of graduate work at Bryn Mawr College; the other, founded in 1894, and known as the Mary Elizabeth Garrett Fellowship, is awarded annually on the ground of excellence in scholarship to a student still in residence who has for two years pursued graduate studies at Bryn Mawr

* Applications for the scholarships for foreign women should be accompanied by full particulars of the candidate's academic work, by diplomas or certificates, and by letters of recommendation from professors, and should be addressed to the office of the Recording Dean, Bryn Mawr College, Bryn Mawr, Pennsylvania, U. S. A., if possible by May the first, or in the case of French students they may be addressed to M. Petit Dutailis, Office Nationale des Universités et Ecoles Françaises, 96 Boulevard Raspail, Paris.

College. These fellowships, of the value of five hundred dollars each, are intended to defray the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the Faculty.

The Helene and Cecil Rubel Foundation Fellowship of the value of \$1,500 was founded in 1920 by Miss Helen Rubel, of New York City, to be awarded in each year by the Faculty of Bryn Mawr College with the approval of the donor. The fellowship may be awarded to any woman who has at any time studied in the graduate school of Bryn Mawr College long enough to have shown her ability irrespective of whether her work was planned to lead to a degree or not. The fellowship may be held at any centre of education that may be selected by the student and approved by the Faculty as best suited to her individual needs, or may, in special cases, be used as a travelling fellowship to give opportunity for the study of conditions in which the student may be interested in different parts of the world. The fellowship shall not necessarily be offered as an aid to study for a higher degree, but may be used by the holder, with the approval of the faculty, in whatever way may best advance the purpose she has in mind. The fellowship shall be awarded to the best student but if she can afford to carry out her plans with her own income she shall return the amount of the fellowship to the College to be used by another student in the same year.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges who shall have satisfied the Academic Council that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may apply to the Academic Council to be enrolled as candidates for the degree of Master of Arts or for the Degree of Doctor of Philosophy and Master of Arts; admission to the graduate school does not, in itself, qualify a student to become a candidate for these degrees.

The Degree of Master of Arts.

The degree of Master of Arts may be conferred upon graduates of Bryn Mawr College and upon graduates of other colleges who shall have satisfied the Graduate Committee that their course of study has been equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or that it has been adequately supplemented by subsequent study.

REGULATIONS.

Course of Study.—Each candidate must attend at Bryn Mawr College three seminaries, or two seminaries and one post-major (third or fourth year undergraduate) course. A seminary requires one-third of the student's time for one year; hence to fulfil this requirement the student must devote her entire time for one year to graduate study. Unless, therefore, she has completed all the other requirements before beginning the work for the M.A. degree she will not be able to complete the work in one year.

Admission to Seminaries.—Preliminary training equivalent to the Bryn Mawr College undergraduate major course* in the subject of the seminary, or in related subjects of equal value in preparation is required for admission to a seminary (or undergraduate course equivalent to a seminary) to be counted for the M.A. degree.

Examinations.—The candidate is required to pass with a creditable grade examinations on the seminaries or courses offered, such examinations being held in the first week of the May examination period.

PRELIMINARY REQUIREMENTS.

(a) *Reading Knowledge of French and German.*

All candidates must prove their ability to use these languages in graduate seminaries by passing a written examination in these languages. The only exception is that a graduate of Bryn Mawr College who becomes a candidate for the M.A. degree within two years after graduation and has taken the yearly examination in French or German is excused from examination in this language.

Dates of Examinations in French and German.—Examinations will be held each year on or about October 15th and again before Thanksgiving. Both examinations must in general be passed before Thanksgiving of the year in which the candidate takes her degree, but the Graduate Committee may, at its discretion, decide to give a candidate who fails at Thanksgiving in either language another trial at some time during the first semester.

* See Bryn Mawr College Calendar. This amounts to 20 semester hours, but in English to 40 semester hours, of undergraduate college training. Compare, however, paragraph (b) below for the equivalents for the first 20 hours of English.

If the candidate devotes two years to work for the degree she may take one or both examinations in the first* year.

(b) *Knowledge of English.*

1. *Ability to Write Correct English.*—The candidate must satisfy the Department of English Composition that she is able to write correct English, and in case of failure to do so will be requested by the Graduate Committee to make up deficiencies in this respect by entering a graduate course in English composition. She must also be able to give a report or carry on discussion in satisfactory English.

2. *English Literature, or Literature of Other Languages.*—A candidate is required to present credits in her undergraduate college course for ten semester hours in literature, at least five of which must be English Literature, and in case of failure to do so will be requested by the Graduate Committee to make up deficiencies.

(c) *Knowledge of Latin.*

All candidates are required to have a knowledge of Latin prose of the standard of Cæsar and Cicero. Candidates who have no credit for Latin on entrance to college are required to pass an examination in Latin Prose Authors of the standard of Cæsar and Cicero, and some questions on grammar may be included. Candidates who have certificates covering part of this ground will be examined on the part in which they are deficient.

Time of this examination: End of first semester. The Graduate Committee may at its discretion grant a second examination early in the second semester to a student who has failed.

(d) *Knowledge of Philosophy, Psychology, Laboratory Sciences, or Mathematics.*

A candidate is required to present credits obtained in her undergraduate college course for twenty semester hours of work in two or more of the subjects, Philosophy, Psychology, Laboratory Science (*i. e.*, Physics, Chemistry, Geology or Biology) or Mathematics, not more than ten of these semester hours to be in any one of these subjects and the twenty hours may not be entirely in Philosophy and Psychology. If, however, the candidate has no entrance credit in a Science which has included laboratory work she will be requested by the Graduate Committee to make up her deficiency by taking in Bryn Mawr College at least six semester hours of Science accompanied by laboratory work which may be counted in the above twenty hours.

Graduate Students who desire to become candidates for the M.A. degree are advised to provide themselves with their complete academic record, including their entrance credits, and to make application for the degree as soon as possible after entering the College, in order that the

* Since the student's entire time should be given to the work of her seminaries, candidates are advised, whenever possible, to prepare for these language examinations before entering the College and to pass them off in the October examination.

Graduate Committee may estimate their work and advise them how to make up deficiencies.

In case of a student coming from a college or university outside of the United States when it is impossible to work out exact equivalents in subjects, the Graduate Committee will judge each case on its merits.

Doctor of Philosophy and Master of Arts.

The degree of Doctor of Philosophy and Master of Arts* may be conferred upon graduates of Bryn Mawr College, and upon graduates of other colleges who shall have satisfied the Graduate Committee either that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given by Bryn Mawr College, or that it has been adequately supplemented by subsequent study. The degree is given to no one who cannot read French and German, or who is unacquainted with Latin. The degree of Doctor of Philosophy will in no case be conferred by the College as an honorary degree.

REQUIREMENTS.

1. *Time*.—The earliest date at which the Ph.D. degree may be taken is three years† after graduation, but the element of time is subordinate to the other requirements. The minimum of three years will usually be exceeded.

2. *Residence*.—The candidate must devote to graduate work the equivalent of three full years, of which at least two must be at Bryn Mawr, and the third if not at Bryn Mawr at some other college or university approved by the Graduate Committee.

3. *Subjects*.—The course of study shall consist of one major subject and two minor subjects, of which one (the associated minor) shall be in the same department as the major subject, or in a closely allied department specified in the printed requirements; the other (the independent minor) shall complete a combination authorized in the printed requirements. Certain combinations will permit the independent minor to be taken in the same department as the associated minor, when this is not in the same department as the major subject. The printed list of independent minors shall consist of subjects that are recommended, and the Graduate Committee shall have power to accept subjects not specified in the list.

4. *Courses*.—During the three years devoted to graduate work the candidate shall take a certain number of seminars stated below; in case

* This is the form in which the degree has always been conferred.

† It is understood that the work done for the separate degree of Master of Arts does not necessarily count as a full year towards the degree of Doctor of Philosophy and Master of Arts.

any part of the three years is spent at some other college or university, the Graduate Committee shall determine the Bryn Mawr equivalents of the courses there taken.

In the major subject together with the associated minor the candidate shall take during each of three years one journal club and two seminars, or graduate courses recognized by the Graduate Committee as seminars;* in the independent minor she shall take for one year two seminars, or graduate courses recognized as seminars. The division of the seminars between the major and the associated minor shall be subject to the approval of the Supervising Committee. In no case shall less than two seminars and one journal club for two years be taken in the major subject.

The required courses may be spread over more than three years; but the student may not take four required seminars with one instructor unless authorized by the Graduate Committee.

No post-major work or work equivalent to post-major shall count towards the degree, even though a candidate may be obliged to take such work in order to supplement her preparation in her subjects, except in the case of such courses in science as shall be designated in the calendar and accepted by the Graduate Committee as equivalent to graduate seminars in virtue of assigned supplementary reading or laboratory work or both.

Of the courses required in the major and associated minor, two seminars and one journal club for at least two years must be taken before the Preliminary Examination, as well as the whole of the work in the independent minor. All must be completed before the Final Examination.

5. *Dissertation*.—The dissertation must be the result of independent investigation in the field covered by the major subject, under such direction as may be necessary; it must contain new results, arguments, or conclusions, or it must present accepted results in a new light. It must be published within three years from the Commencement after the candidate has passed the Final Examination, unless a special extension of time is granted by the Graduate Committee; and 150 copies (including the vita), of which two must be bound in a specified manner, must then be supplied to the College. The candidate shall not be entitled to use the degree until her dissertation shall have been published in approved form.

6. *Examinations*.—The progress and attainments of the candidate shall be tested by examinations as explained in the printed regulations.

Registration.—Before an applicant for the degree of Ph.D. can be admitted as a candidate she must submit† to the Graduate Committee in writing an account of her general preparation, stating in particular the extent of her knowledge of Latin, French, and German; stating also the subjects she wishes to offer as major and minors for the degree, and the amount and character of the work already done in these subjects. If this statement is satisfactory she will be registered as a candidate. When the Graduate Committee decides that the candidate's preparation is in any way insufficient she will be required to undertake suitable extra work.

* A course will not be regarded as equivalent to a seminary unless it requires about fourteen hours a week of the student's time.

† Using the application blank issued by the Graduate Committee.

Expenses.

For graduate students attending six or more hours a week of lectures, and for fellows and graduate scholars the tuition fee is two hundred dollars a year, payable half yearly in advance at the beginning of each semester. For other graduate students who do not wish to devote all their time to graduate work the fees are as follows, payable in advance: for one hour a week of lectures, eighteen dollars a semester; for two hours a week of lectures, thirty-six dollars a semester; for three hours a week of lectures, forty-eight dollars a semester; for four or five hours a week of lectures, sixty-five dollars a semester.* This arrangement is made especially for non-resident graduate students, but those who wish to take five hours a week of lectures or less may live in the College halls on the understanding that they must give up their rooms if needed for students who are taking the full amount of graduate work and paying the regular tuition fee. No student may, however, live in the Halls of Residence who does not register for a course or research work amounting to at least a two-hour lecture or seminary course. The tuition fee for the semester becomes due as soon as the student is registered in the College office. No reduction of this fee will be made on account of absence, dismissal during the currency of the semester, term, or year covered by the fee in question, or for any other reason whatsoever. Graduate students are admitted to residence or to attendance on lectures at any time during the year, and in this case a proportionate reduction is made in the charges for board and room-rent and for tuition. Every student who enters the College must register immediately at the Comptroller's office, and must register her courses at the President's office within two weeks after entrance under penalty of exclusion from the College.

* The fees charged are reckoned on the basis of the actual hours of conference or lecture irrespective of the number of undergraduate hours to which the course is regarded as equivalent.

In counting the number of hours for which a graduate is registered the following special arrangements are made in regard to laboratory courses: payment for a one hour lecture course in a scientific department entitles the student to four hours of laboratory work in addition with no extra charge except the laboratory fee. Students registered for laboratory work only, are charged the following tuition fee: for each two and one-half hours of undergraduate laboratory course and for each five hours of graduate laboratory course the same fee as for a one hour lecture course. The laboratory fees as stated on page 41 are charged in addition to the charge for tuition.

Any change made later in the courses registered must be reported immediately to the President's office, or the courses will not be permitted to count, and a charge of one dollar will be made for each change made in the course after it has been definitely registered.

Graduate students taking courses in scientific departments (Physics, Chemistry, Geology, Biology, and Psychology) amounting to six or more hours a week of lecture courses or its equivalent in laboratory courses are charged a laboratory fee of twenty-one dollars and fifty cents a semester with the following exceptions: if the student takes, as a regular student, courses in subjects not enumerated above amounting to six hours a week the laboratory fee is reduced to fifteen dollars a semester; and if she takes, as a regular student, courses in subjects not enumerated above amounting to ten hours a week the laboratory fee is reduced to seven dollars and a half a semester.

Graduate students taking less than six hours a week of lectures, or its equivalent in laboratory work, and graduate students taking one undergraduate laboratory course only are charged a laboratory fee of fifteen dollars a semester for every laboratory course of four or more hours a week, and of seven dollars and fifty cents a semester for every laboratory course of less than four hours a week.

In courses in Geology each hour of field work counts as one hour of laboratory work.

Graduate students in the department of Social Economy and Social Research who take courses involving field work or laboratory work in statistics are charged a fee of ten dollars a semester to help to meet the departmental expenses of telephone and clerical services, laboratory equipment and supplies. Students are expected to meet their own travelling and incidental expenses while working in the field. A 50-trip ticket between Bryn Mawr and Philadelphia costs \$9.18 and usually not more than one is required each semester in a course involving field work.

The fee for laboratory courses in Applied Psychology and Educational Psychology is \$6 a semester.

Residence.

Residence in the college buildings is optional except for holders of resident fellowships and scholarships. Those who do not reside in the college buildings are expected to make arrangements which are satisfactory to the college. Former students returning to write a dissertation or to do research work are required to register and to pay the minimum fee of eighteen dollars a semester if they wish to make use of the library and seminary rooms. In each hall of residence, except Merion Hall, a special wing or corridor is reserved for graduate students, and in order to secure entire quiet no undergraduate students are permitted to engage rooms in the graduate wings. The expense of board and residence in the graduate wings of the College halls is five hundred dollars. Of this amount four hundred dollars is the charge for board, and is payable half-yearly in advance; the remainder is room-

rent, and is payable yearly in advance. Every student has a separate bedroom. Room-rent includes all expenses of furnishing, service, heating and light.

Plans and descriptions of the academic buildings and of the halls of residence, Merion Hall, Radnor Hall, Denbigh Hall, Pembroke Hall West, Pembroke Hall East, and Rockefeller Hall, with a full account of the halls and tariff of rooms, are published as Part 4 of the Bryn Mawr College Calendar and may be obtained by application to the Secretary of the College. Each of the halls of residence (except Pembroke, which has a common dining-hall and kitchen for the two wings) has its separate kitchen and dining-hall, provides accommodation for from sixty to seventy students, and is under the charge of a resident warden.

Application for rooms should be made as early as possible. The demand for graduate rooms is very great, and since every room unnecessarily reserved may prevent some other student from entering the college, a deposit of fifteen dollars is required in order that the application may be registered. In case the applicant enters the College in the year for which the room is reserved, the amount of the deposit is deducted from the first College bill. If she changes the date of her application or files formal notice of withdrawal at the Secretary's office before July fifteenth of the year for which the application is made, the deposit will be refunded. If, for any reason whatever, the change or withdrawal be made later than July fifteenth, the deposit will be forfeited to the College. Students making application for a room for the second semester forfeit the deposit if they do not file formal notice of withdrawal at the Secretary's office before December first of the academic year for which the room is reserved. In order to make application for a room it is necessary to sign a room-contract, which will be sent on application, and return it with the fee of fifteen dollars to the Secretary and Registrar of the College. A deposit of fifteen dollars must also be made by each student in residence in order to insure the tenure of her room for the following academic year. This sum will be forfeited if formal notice of withdrawal is not filed at the office of the Secretary and Registrar on or before May first of the current year.

Every applicant giving up later than the first of September the room or suite of rooms assigned to her for the ensuing academic year is responsible for the rent thereof for the whole year. Every applicant for a room for the second semester is responsible for the rent of the room or suite of rooms assigned to her for this semester, unless she gives formal notice of withdrawal to the Secretary and Registrar before the first of January. The charges for room-rent are not subject to remission or deduction under any circumstances, or in case of withdrawal for any cause whatever, even though during the currency of a semester, term, or year paid for in advance the student shall be dismissed. The applicant is not entitled to dispose of the rooms thus left vacant, this right being reserved exclusively by the College.

Any student who changes her room is required to pay an extra fee of fifteen dollars.

Students are expected to provide their own rugs, curtains and towels, but in every other respect the rooms are completely furnished. Electric reading lamps, table napkins, sheets, etc., are provided by the College. No part whatever need be taken by the students in the care of their own rooms.

There are open fire-places in nearly all the studies and in many single rooms, but the rooms are sufficiently heated by steam. The air in each room is changed every ten minutes, and the temperature is regulated by a thermostat in each room. The students' personal washing may be done by any laundry recommended by the college for one dollar a dozen, or about \$16 a half-year for one dozen pieces a week.

Accommodation is provided for graduate students that wish to remain at the College during the Christmas and Easter vacations at \$15.50 a week. At Christmas the College halls are closed, but accommodation is provided on or near the College campus. At Easter graduate students may occupy their own rooms in the halls of residence at the above rate. Graduate students remaining during the vacations in the neighbourhood of Bryn Mawr are required to take advantage of these arrangements and will be charged at the above rates for the period of the vacation unless they inform the Secretary and Registrar of the College in advance of their intention to spend the vacation elsewhere, and register their addresses in the College office.

The health of the students is under the charge of a Health Committee consisting of the President, the Dean of the College, the Director of Physical Training, the Head Warden, and the physicians of the college.

The Assistant Resident Physician of the college is in her office in the college infirmary during the hours from eight to eight-thirty and four to five-thirty every day, except Saturday and Sunday, and may be consulted by the students without charge.

All entering resident graduate students are required to have a medical, physical and oculist's examination and to follow the health directions of the physicians of the college which will be given them after the examination; those who are reported by

the physicians of the college as suffering from uncorrected eye trouble will be expected to take the necessary measures to correct it.

Every student entering the college will be vaccinated unless she can furnish satisfactory proof that she has been successfully vaccinated not more than two years previously.

All resident graduate students are required to register regular exercise.

The conduct of the students in all matters not purely academic, or affecting the management of the halls of residence, or the student body as a whole, is in the hands of the Students' Association for Self-Government, which was organized in 1892. All persons studying in Bryn Mawr College, whether graduates or undergraduates, are members of this association.

The College reserves the right to exclude at any time and to cancel the fellowships or scholarships held by students whose conduct or academic standing renders them undesirable members of the College community, and in such cases the fees due or which may have been paid in advance to the College will not be refunded or remitted in whole or in part.

In 1893 the Bryn Mawr Graduate Association was organized by the graduate students then in residence, its object being to further the social life of the graduate students. A room in Denbigh Hall is set apart by the College to be used as a club-room. Informal meetings are frequently held in this room, and several times during the year the Association invites the Faculty and friends of the College to larger social gatherings, which are addressed by well-known speakers.

Summary of Expenses of Graduate Students.

Tuition for the semester, payable on registration:

For one hour* a week of lectures.....	\$ 18.00
For two hours a week of lectures.....	\$ 36.00
For three hours a week of lectures.....	\$ 48.00
For four or five hours a week of lectures	\$ 65.00
For six or more hours a week of lectures.....	\$100.00

Room-rent for the academic year, payable on registration..... \$100.00

Board for the semester payable on registration..... \$200.00

Total expenses for the academic year:

Tuition fee, for six or more hours a week of lectures.....	\$200.00
Room-rent.....	\$100.00
Board.....	\$400.00
Infirmary fee.....	\$ 10.00

* Total for tuition, residence, and infirmary care for the academic year... \$710.00

Laboratory fees for the academic year.....\$12 to \$43

Students whose fees are not paid before November first in the first semester and before March first in the second semester are not permitted to continue in residence or in attendance on their classes.

THE STUDENTS' LOAN FUND OF BRYN MAWR COLLEGE was founded by the Class of 1890 for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed is distributed in the form of partial aid, and as a loan. It is as a rule applied to the assistance of those students only who have attended courses in the College for at least one year. The Fund is managed by a committee consisting of the President of the College and representatives of the Alumnae Association of Bryn Mawr College. The committee reports yearly to the Board of Trustees and to the Alumnae Association. The committee consists of the following members: President M. Carey Thomas; Miss Anne Hampton Todd, *ex-officio*, 2115 Spruce Street, Philadelphia; Miss Doris Earle, Chestnut Hill, Pa.; Miss Katharine Leonard Howell, 3307 Hamilton Street, Philadelphia; Miss Emma Osborn Thompson, 506 South Forty-eighth Street, Philadelphia; Professor Eunice Morgan Schenck, Bryn Mawr College, and Miss Helen Rutgers Sturgis, 500 Cedar Avenue, Richmond Hill, Long Island, N. Y. Contributions may be sent to any member of the committee. Applications for loans should be sent to the Chairman of the committee, and all applications for any given year should be made before May 1st of the preceding academic year.

Libraries.

The fact that the College is situated in the suburbs of Philadelphia enables the student to make use of all the resources of the libraries of Philadelphia, as well as those of the College proper.

The College library has been collected within the past thirty-seven years, and is designed to be, as far as possible, a library for special study. There are at present on its shelves about ninety-six thousand bound volumes, and ten thousand disser-

* See footnote, page 40. Graduate students are also charged a fee of \$2.50 a year for the support of the athletic grounds.

tations and pamphlets, the collection including the classical library of the late Professor Sauppe, of Göttingen, which was presented to the College in 1894, and the Semitic library of the late Professor Amiaud, of Paris, acquired in 1892. A more detailed description of these two collections may be found on pages 56 and 77.

The sum of about seven thousand dollars is expended yearly for books under the direction of the heads of the several collegiate departments, and, in addition to many gifts of books, about twenty thousand dollars has been presented to the library during the past ten years for expenditure in special departments. Over four hundred publications and reviews in the English, Greek, French, Italian, Spanish, German, and Swedish languages, are taken by the library, as follows:

General and Miscellaneous Periodicals.

Abhandlungen der Königlichen Bayerischen Akademie der Wissenschaften zu München.	Independent.
*Amherst Graduates' Quarterly.	Inter-America.
Asia.	Jahresverzeichniss der an den deutschen Schulanstalten erschienenen Abhandlungen.
Atlantic Monthly.	*Japan Society Bulletin.
Bookman.	*Johns Hopkins University, Circulars.
Bookman (English).	Larousse mensuel illustré.
Bookseller.	Library Journal.
*Bryn Mawr Alumnae Bulletin.	Literary Digest.
Bulletin of Bibliography.	Living Age.
*Bulletin of the New York Public Library.	London Mercury.
*Bulletin of the Pan-American Union.	Mercure de France.
Century.	Mind and Body.
Contemporary Review.	Minerve Française.
Cumulative Book Index.	*Monthly Bulletin of the Carnegie Library of Pittsburgh.
Dearborn Independent.	Nachrichten von der Königlichen Gesellschaft der Wissenschaften, Göttingen.
Deutsche Rundschau.	Nation, N. Y.
Dial.	Nation and Athenaeum.
Drama.	Neue Rundschau.
Les écrits nouveaux.	New Republic.
Edinburgh Review.	New Statesman.
English Review.	New York Times Index.
La Esfera.	Nineteenth Century.
Fortnightly Review.	North American Review.
Foetum.	Nouvelle Revue Française.
Göttingische Gelehrte Anzeigen.	Nuevo Mundo.
Harper's Monthly Magazine.	Nuova Antologia.
Harvard Graduates' Magazine.	Outlook.
L'Illustration.	
L'Illustrazione Italiana.	

*Pennsylvania Library Notes.
 Preussische Jahrbücher.
 Public Affairs Information Service Bulletin.
 Publishers' Weekly.
 Punch.
 Quarterly Review.
 Reader's Guide to Periodical Literature.
 Review of Reviews.
 Revue Critique d'Histoire et de Littérature.
 Revue de Paris.
 Revue des Deux Mondes.
 Revue Internationale de la Croix-rouge.
 Revue Politique et Littéraire; Revue Bleue.
 Saturday Review.

Scientia.
 Scribners Magazine.
 Sewanee Review.
 Sitzungsberichte der Königlichen Bayerischen Akademie der Wissenschaften.
 Sitzungsberichte der Königlichen Preussischen Akademie der Wissenschaften zu Berlin.
 Spectator.
 Theater Arts Magazine.
 *University of California, Publications.
 *University of Missouri, Studies.
 *University of Nebraska, Studies.
 *University of Texas, Studies.
 *University of Washington, Studies.
 Weekly Review of the Far East.
 World's Work.

Newspapers.

*College News, Bryn Mawr.
 Corriere della Sera.
 Daily News Record.
 *Home News, Bryn Mawr.

London Times.
 New York Times.
 Philadelphia Public Ledger.
 El Sol.

Art and Archæology.

American Journal of Archæology.
 Archæologike Ephemeris.
 Art and Archæology.
 Art Bulletin.
 Art in America.
 L'Arte.
 Boletín de la Sociedad Española a Excursiones.
 British School at Athens, Annual.
 Bulletin of the Metropolitan Museum of Art, New York.
 *Bulletin of the Rhode Island School of Design.
 Bulletino della Commissione archæologica comunale de Roma.
 Burlington Magazine.
 Denkmäler der Malerei des Altertums.
 Gazette des Beaux Arts.
 International Studio.
 Jahrbuch der königlich preuss kunst-sammlungen.
 Jahrbuch des Deutschen Archæologischen Instituts.
 Jahreshefte des Österreichischen Archæologischen Instituts in Wien.

Journal of Hellenic Studies.
 Journal international d'archéologie numismatique.
 Journal of the American Institute of Architects.
 Mittheilungen und Nachrichten des Deutschen Palästina Vereins.
 Mittheilungen des Deutschen Archæologischen Instituts, Athenische Abteilung.
 Mittheilungen des Deutschen Archæologischen Instituts, Römische Abteilung.
 Museum Journal.
 *Museum of Fine Arts Bulletin, Boston.
 Notizie degli Scavi di Antichità.
 Rassagne d'arte.
 Revue archéologique.
 Revue de l'art.
 Rivista d'arte.
 Syria.
 Zeitschrift des Deutschen Palästina Vereins.
 Zeitschrift für bildende kunst.

Economics and Politics.

*Advocate of Peace.
 All Opinions of the U. S. Supreme Court.
 *American Association for International Conciliation, Publications.

American City.
 American Economic Review.
 *American Economist.
 American Federationist.

- American Journal of International Law.
 American Municipalities.
 American Political Science Review.
 *The Americas.
 Annalist.
 Annals of the American Academy of
 Political and Social Science.
 Bibliographie der Sozialwissenschaften.
 Canadian Municipal Journal.
 Citizens Business.
 City Record, Boston.
 Columbia Law Review.
 Columbia Studies in History, Economics
 and Public Law.
 Commerce Monthly.
 Commerce Reports.
 *Congressional Record.
 Economic Journal.
 Good Government.
 Great Britain, Quarterly List of Official
 Publications.
 Guaranty News.
 Handbuch der öffentlichen Rechte.
 Harvard Law Review.
 Jahrbücher für Nationalökonomie und
 Statistik.
- Johns Hopkins University Studies in
 Historical and Political Science.
 Journal of Political Economy.
 Journal of the Royal Statistical Society.
 Modern City.
 Municipal Journal, Baltimore.
 National Municipal Review.
 National Tax Association Bulletin.
 Political Science Quarterly.
 Proceedings of the Academy of Political
 Science.
 Proportional Representation Review.
 Publications of the American Economic
 Association.
 Quarterly Journal of Economics.
 Revue bibliographique.
 Revue général de Droit international pub-
 lic.
 Searchlight on Congress.
 Short Ballot Bulletin.
 *Single Tax Review.
 Yale Review.
 Zeitschrift für Volkswirtschaft, Social-
 politik u. Verwaltung

Social Economy and Social Research.

- *Advance.
 American Child.
 American Child Hygiene Association,
 Transactions.
 American Flint.
 American Industries.
 American Journal of Public Health.
 American Journal of Sociology.
 American Labor Legislation Review.
 American Pressman.
 American Review of Tuberculosis.
 *Bakers' Journal.
 Better Times.
 *Bridgeman's Magazine.
 *Broom-maker.
 Bulletin of the International Labour Office.
 Bulletin of the National Tuberculosis
 Association.
 Bulletin of the National Society for Voca-
 tional Education.
 *Bulletin of the New York State Depart-
 ment of Labor.
 Bulletin of the Taylor Society.
 *Carpenter.
 Charity Organization Review.
 *Commercial Telegraphers' Journal.
 Community Center.
 Economic World.
- *Electrical Worker.
 *Elevator Constructor.
 Eugenics Review.
 Factory.
 Filing and Office Management.
 *Forbes.
 *Garment Worker.
 *Granite Cutters' Journal.
 Housing Betterment.
 Industrial Arts Index.
 Industrial Information Service.
 Industrial Management.
 Industrial News Survey.
 *Institution Quarterly.
 *International Bookbinder.
 *International Musician.
 *International Steam Engineer.
 Iron Age.
 Journal of Applied Sociology.
 Journal of Criminal Law.
 Journal of Delinquency.
 Journal of Heredity.
 Journal of Industrial Hygiene.
 Journal of International Relations.
 *Journal of the Cigar Makers' International
 Union.
 Journal of the Outdoor Life.
 *Journeyman Barber.

- Labor Age.
 Labor Bulletin of the Massachusetts
 Bureau of Statistics.
 Labor Gazette.
 *(The) Lather.
 *Law and Labor.
 *Leatherworkers' Journal.
 Life and Labor.
 *Machinists' Journal.
 *Metal Polishers' Journal.
 *Motorman and Conductor.
 *Mixer and Server.
 Nation's Business.
 Nation's Health.
 National Conference of Social Work
 Bulletin.
 100%, The Efficiency Magazine.
 *Ohio State Institution Journal.
 The Organizer.
 *Painter and Decorator.
 *Papermakers' Journal.
 *Patternmakers' Journal.
 *Paving Cutters' Journal.
 *Plasterer.
 Playground.
 *Plumbers' Journal.
 Proceedings of the National Conference of
 Social Work.
 *Progressive Labor World.
 Publications of the American Statistical
 Association.
- *Public Health, Michigan.
 *Quarry Workers' Journal.
 *Railway Carmen's Journal.
 *Railway Clerk.
 *Retail Clerks' International Advocate.
 Seaman's Journal.
 *Shoeworkers' Journal.
 Social Hygiene.
 Social Hygiene Bulletin.
 Social Service Review.
 *Stereotypers' and Electrotypers' Journal.
 Survey.
 System.
 *Tailor.
 *Teamsters', Chauffeurs', Stablemen and
 Helpers' Magazine.
 *Textile Worker.
 *Tobacco Workers' Journal.
 *Trade Union News.
 *Typographical Journal.
 *United Association of Journeymen Plumb-
 ers' Journal.
 *U. S. Bureau of Immigration, Publications.
 *U. S. Bureau of Labor Statistics, Bulletin.
 *U. S. Bureau of the Census, Publications.
 *U. S. Children's Bureau, Publications.
 *University of Illinois, Studies in Social
 Sciences.
 *University of Minnesota, Studies in Social
 Sciences.
 *Woodcarver.

Education.

- Education.
 Educational Review.
 Educational Times.
 Elementary School Journal.
 English Journal.
 Journal of Educational Psychology.
 Journal of Educational Research.
 Journal of Experimental Pedagogy.
 *Journal of the Association of Collegiate
 Alumnæ.
 Lehrproben und Lehrgänge.
 Manual Training Magazine.
 National Education Association, Publica-
 tions.
 National Society for the Study of Educa-
 tion Yearbook.
 Normal Instructor.
- Pädagogische Studien.
 Pedagogical Seminary.
 Revue Internationale de l'Enseignement
 Supérieur.
 Revue Universitaire.
 School and Society.
 School Journal.
 School Review.
 School Science and Mathematics.
 Supplementary Education Monographs.
 Teachers' College Contributions to Educa-
 tion.
 Teachers' College Record.
 *U. S. Bureau of Education, Bulletin.
 *University of California Publications,
 Education.
 Zeitschrift für pädagogische Psychologic.

History.

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| <p>American Historical Association, Reports.
 American Historical Review.
 *Catholic Historical Review.
 Current History.
 English Historical Review.
 Historical Manuscripts Commission, Reports.
 Historische Vierteljahrschrift.
 Historische Zeitschrift.
 History.</p> | <p>*Illinois State Historical Society Journal.
 Jahresberichte der Geschichtswissenschaft.
 Klio, Beiträge zur alten Geschichte.
 Révolution française.
 Revue des Études Napoléoniennes.
 †Revue des Questions historiques.
 Revue historique.
 Round Table.
 Royal Historical Society, Transactions.
 Selden Society, Publications.</p> |
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Philology and Literature, Classical.

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| <p>†Bulletin bibliographique et pédagogique du Musée Belge.
 Classical Journal.
 Classical Philology.
 Classical Quarterly.
 Classical Review.
 Classical Weekly.
 Commentationes philologiae jenenses.
 Dissertationes philologicae halenses.
 Glotta.
 Harvard Studies in Classical Philology.
 Hermes.
 Jahresbericht über die Fortschritte der klassischen Altertumswissenschaft.
 Journal of Roman Studies.</p> | <p>†Le Musée Belge, Revue de Philologie classique.
 Mnemosyne.
 Philologische Untersuchungen.
 Philologus.
 Quellen und Forschungen zur lateinischen Philologie.
 Revue de Philologie.
 Revue des Études grecques.
 Rheinisches Museum für Philologie.
 Rivista di Filologia.
 Sokrates.
 Studi Italiani di Filologia classica.
 †Studi Storici per l'Antichità classica.
 Wiener Studien, Zeitschrift für klassische Philologie.</p> |
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Philology and Literature, General and Comparative.

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| <p>American Journal of Philology.
 †Eranos.
 Indogermanische Forschungen.
 Journal of English and Germanic Philology.
 Journal of Philology.
 Neue Jahrbücher für das klassische Altertum, Geschichte und deutsche Literatur.
 Philologica.</p> | <p>Philological Quarterly.
 Philological Society, London, Publications.
 Philologische Wochenschrift.
 Transactions of the American Philological Association.
 Zeitschrift für die österreichischen Gymnasien.
 †Zeitschrift für vergleichende Sprachforschung.</p> |
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Philology and Literature, Modern.

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| <p>Acta Germanica.
 Anglia.
 Anglistische Forschungen.
 †Annales Romantiques.
 Archiv für das Studium der neueren Sprachen.
 Archivio Glottologico Italiano.
 Arkiv for Nordisk Filologi.
 Beiblatt zur Anglia.
 Beiträge zur Geschichte der deutschen Sprache und Literatur.</p> | <p>Bibliographical Society of America, Publications.
 Bibliographical Society of London, Transactions.
 Bonner Studien zur englischen Philologie.
 British Society of Franciscan Studies.
 Bulletin hispanique.
 Bulletino della Società Dantesca Italiana.
 Chaucer Society Publications (both series).
 Deutsche Literaturzeitung.
 Deutsche Texte des Mittelalters.
 Dialect Notes.</p> |
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Early English Text Society, Publications
(both series).
English Leaflet.
Englische Studien.
Euphorion.
Forschungen zur neueren literaturge-
schichte.
†Germanisch-romanische Monatsschrift.
Giornale Storico della Letteratura italiana.
Goethe Jahrbuch.
Henry Bradshaw Society, Publications.
Hispania.
Jahrbuch der Deutschen Shakespeare
Gesellschaft.
Jahrbuch des Vereins für niederdeutsche
Sprachforschung.
Jahresbericht über die Erscheinungen auf
dem Gebiete der germanischen Philo-
logie.
Kieler Studien zur englischen Philologie.
Korrespondenzblatt des Vereins für nieder-
deutsche Sprachforschung.
†Kritischer Jahresbericht über die Fort-
schritte der romanischen Philologie.
Literarische Echo.
Literarisches Centralblatt.
Literaturblatt für germanische und roman-
ische Philologie.
Malone Society, Publications.
Materialen zur Kunde des älteren engli-
schen Dramas.
Modern Language Journal.
Modern Language Notes.
Modern Language Review.
Modern Languages.
Modern Philology.
Münchener Beiträge zur romanischen und
englischen Philologie.

Palaestra.
Notes and Queries.
Poet-lore.
Praeger deutsche Studien.
Publications of the Modern Language
Association.
Quellen und Forschungen zur Sprach- und
Kulturgeschichte der germanischen
Völker.
Rassegna Bibliografica.
Revista de Filologia Española.
Revue Celtique.
Revue d'Histoire Littéraire de la France.
†Revue Germanique.
Revue de Littérature Comparée.
Revue Hebdomadaire.
Revue Hispanique.
Romania.
Romanic Review.
Romanische Forschungen.
Scottish Text Society, Publications.
Société des Anciens Textes Français, Pub-
lications.
Société des Textes Français Modernes,
Publications.
Studien zur englischen Philologie.
Studies in Philology.
Wiener Beiträge zur englischen Philologie.
Yale Studies in English.
Zeitschrift für den deutschen Unterricht.
Zeitschrift für deutsche Philologie.
Zeitschrift für deutsches Altertum und
deutsche Litteratur.
Zeitschrift für deutsche Wortforschung.
Zeitschrift für französische Sprache und
Litteratur.
Zeitschrift für romanische Philologie.

Philology and Literature, Semitic.

American Journal of Semitic Languages
and Literatures.
Jewish Quarterly Review.
Journal of the Royal Asiatic Society.
Journal of the Society of Oriental Research.

†Recueil de Travaux relatifs à la Philologie
et à l'Archéologie égyptiennes et
assyriennes.
Zeitschrift für ägyptische Sprache und
Altertumskunde.
Zeitschrift für Assyriologie.

Philosophy and Psychology.

American Journal of Psychology.
†Année psychologique.
Archiv für die gesamte Psychologie.
Archiv für Geschichte der Philosophie.
Archiv für systematische Philosophie.
Archives de Psychologie.

†Archives of Psychology.
Behavior Monographs.
British Journal of Psychology.
British Journal of Psychology: Mono-
graph Supplements.
†Bulletin de l'Institut Psychologique.

Fortschritte der Psychologie.
 Hibbert Journal.
 International Journal of Ethics.
 †Journal de Psychologie.
 Journal für Psychologie und Neurologie.
 Journal of Abnormal and Social Psychology.
 †Journal of Animal Behaviour.
 Journal of Applied Psychology.
 Journal of Comparative Psychology.
 †Journal of Experimental Psychology.
 Journal of Philosophy.
 Mind.
 Monist.
 Philosophical Review.
 Proceedings of the Aristotelian Society.
 Proceedings of the Society for Psychical Research.
 Psychological Bulletin.
 Psychological Clinic.

Psychological Review.
 Psychological Review; Monograph Supplements.
 Psychological Review; Psychological Index.
 †Psychologische Arbeiten.
 Psychologische Studien.
 Revue de Métaphysique.
 Revue philosophique.
 Training School Bulletin, Vineland.
 *University of Toronto Studies, Psychology Series.
 Vierteljahrschrift für wissenschaftliche Philosophie u. Soziologie.
 Zeitschrift für angewandte Psychologie.
 Zeitschrift für Psychologie und Physiologie der Sinnesorgane: 1. Abt., Zeitschrift für Psychologie. 2. Abt., Zeitschrift für Sinnesphysiologie.

Religion.

American Friend.
 Anglican Theological Review.
 †*Christian Register.
 Expositor.
 Expository Times.
 Harvard Theological Review.
 Journal of Biblical Literature.
 Journal of Religion.

Journal of Theological Studies.
 Pilgrim.
 *Publications of the American Jewish Historical Society.
 Religious Education.
 Revue biblique.
 *Spirit of Missions.
 *Woman's Missionary Friend

Science, General.

American Journal of Science.
 Atti della Reale Accademia delle Scienze di Torino.
 British Association for the Advancement of Science, Reports.
 *Bulletin of the University of Wisconsin, Science Series.
 Comptes Rendus des Séances de l'Académie des Sciences.
 International Catalogue of Scientific Literature.
 *Kansas University, Science Bulletin.
 Nature.
 *New York State Museum Bulletin.
 Philosophical Magazine.

Philosophical Transactions of the Royal Society of London.
 Proceedings of the American Philosophical Society.
 Proceedings of the National Academy of Sciences.
 • Royal Society of London Proceedings series A and B.
 Science.
 Scientific American.
 Scientific Monthly.
 *U. S. National Museum, Publications.
 *University of Missouri Studies, Science Series.

Science, Biology.

American Anthropological Association, Memoirs.
 American Anthropologist.
 American Journal of Anatomy.

American Journal of Physiology.
 American Naturalist.
 Anatomischer Anzeiger.
 Archiv für Anatomie und Physiologie.

* Presented by the Publishers.

† Suspended publication.

‡ In Christian Association Library.

Archiv für die gesammte Physiologie.
Archiv für Entwicklungsmechanik der
Organismen.

Archiv für mikroskopische Anatomie.
Bibliographia physiologica.
Biologisches Centralblatt.
Biometrika.

Botanisches Centralblatt.
Centralblatt für Physiologie.

Endocrinology.
Eugenics Laboratory Memoirs.
Genetics.

*Illinois Biological Monographs.

Jahrbücher für wissenschaftliche Botanik.

Journal de Physiologie.

Journal of Biological Chemistry.

Journal of Experimental Medicine.

Journal of Experimental Zoology.

Journal of General Physiology.

Journal of Genetics.

Journal of Morphology.

Journal of Physiology.

Journal of the Royal Microscopical
Society.

*Midland Naturalist.

Physiological Abstracts.

Quarterly Journal of Microscopical
Science.

Stazione Zoologica di Napoli, Publica-
zioni.

*U. S. Public Health Service, Publications.

*University of California Publications,
Physiology.

*University of California Publications,
Zoology.

*University of Pennsylvania, Contribu-
tions from the Zoological Laboratories.

*University of Toronto Studies, Biological
Series.

*University of Toronto Studies, Physio-
logical Series.

*Wilson Bulletin.

Zeitschrift für wissenschaftliche Zoologie.
Zoologischer Anzeiger.

Science, Geology, and Geography.

Centralblatt für Mineralogie.

Economic Geology.

Geographical Journal.

Geological Magazine.

Geologisches Centralblatt.

*Georgia Geological Survey Bulletin.

*Illinois Geological Survey Bulletin.

Journal of Geography.

Journal of Geology.

Meteorologische Zeitschrift.

Mineralogical Magazine.

Mineralogische und petrographische Mit-
theilungen.

National Geographic Magazine.

Neues Jahrbuch für Mineralogie, Geologie
und Paläontologie.

Philadelphia Geographical Society Bulletin.

Quarterly Journal of the Geological
Society.

Revue de Geologie.

*U. S. Monthly Weather Review.

*University of Toronto Studies, Geological
Series.

Mathematics, Chemistry, and Physics.

Acta Mathematica.

American Journal of Mathematics.

Annalen der Chemie.

Annalen der Physik.

Annales de Chimie.

Annales de Physique.

Annales scientifiques de l'Ecole Normale
Supérieure.

Annali di Matematica.

Annals of Mathematics.

Astrophysical Journal.

Berichte der deutschen chemischen Gesell-
schaft.

Bibliotheca Mathematica.

Bolletino di Bibliografia e Storia delle
Scienze Matematiche.

Bulletin de la Société Chimique de France.

Bulletin de la Société Mathématique.

Bulletin des Sciences mathématiques.

Bulletin of the American Mathematical
Society.

Cambridge Tracts in Mathematics.

Chemisches Zentralblatt.

Giornale di Matematiche.

Helvetica Chimica Acta.

Jahrbuch der Chemie.

Jahrbuch über die Fortschritte der
Mathematik.

Jahresbericht der deutschen Mathematiker
Vereinigung.

Journal de Chimie physique.

Journal de Mathématiques.

Journal de Physique.

Journal für die reine und angewandte
Mathematik.

Journal für praktische Chemie.

Journal of the American Chemical Society.
 Journal of the London Chemical Society.
 Journal of Physical Chemistry.
 Kolloidzeitschrift.
 Mathematische Annalen.
 Messenger of Mathematics.
 Monatshefte für Chemie.
 Physical Review.
 Physikalische Zeitschrift.
 Proceedings of the London Mathematical Society.

Quarterly Journal of Mathematics.
 Rendiconti del Circolo Matematico di Palermo.
 Science Abstracts.
 Transactions of the American Mathematical Society.
 *U. S. Bureau of Standards Bulletin.
 Zeitschrift für anorganische Chemie.
 Zeitschrift für Elektrochemie.
 Zeitschrift für Mathematik und Physik.
 Zeitschrift für physikalische Chemie.

The library is open daily from eight A. M. to ten P. M. Books may be taken out by the students unless specially reserved for library reference use.

There are in Philadelphia the following important libraries which are available for students:

The *Library Company of Philadelphia*, which contains about 275,000 volumes, divided between the Locust Street Building and the Ridgway Branch. Its valuable collection of pamphlets is included in the number of volumes as given above. The Library is open from nine A. M. to five-thirty P. M., and is open to students for consultation freely during these hours. To take books from the building a deposit must be made or subscriptions will be received as follows: Twelve dollars for one year, six dollars for six months, four dollars for three months.

The *Mercantile Library*, which contains about 215,000 volumes. Private subscription, \$5.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains about 81,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

The *Library of the University of Pennsylvania*, which contains about 500,000 volumes and 50,000 pamphlets. The custodians of this library have always shown great courtesy in placing rare volumes at the disposal of the College.

The *Free Library of Philadelphia*, which contains over 600,000 volumes and 350,000 pamphlets, and is at all times open to the students for consultation.

The *American Philosophical Society Library*, which contains about 70,000 volumes, admission by card.

The *Historical Society of Pennsylvania Library*, which contains over 150,000 bound volumes, and 250,000 pamphlets, is for reference only. The collection of manuscripts is one of the best in the country comprising 7,000 volumes. Every courtesy is extended to members of the College.

Sanskrit and Comparative Philology.

The instruction in this department is under the direction of a non-resident lecturer in Comparative Philology and Sanskrit.

GRADUATE COURSES.

The following graduate courses are offered in each year:

Lectures on Comparative Philology and Philological Seminary.

Two hours a week throughout the year.

Students entering this course are expected to be familiar with German and French, A short preliminary course in Sanskrit is also of great aid to the student. The lectures on comparative philology treat of the connection of the Greek and Latin languages with the related languages of the Indo-European group, first, phonetically, secondly, from the point of view of grammatical forms, and lastly, from the point of view of syntax. In the first part of the course which covers what during the last few years has been the field of the most active research the student is introduced to the latest theories and discoveries in Aryan phonetics, and is expected to read and criticize the articles appearing from time to time in the philological journals, and to prepare reports on these articles. The same method is pursued during the investigation of the history of forms; and in the third part of the course the student begins the study of comparative syntax by a close comparison of the use of cases and verbal forms in Sanskrit, Greek, and Latin.

Elementary Sanskrit.

Two hours a week throughout the year.

Whitney's *Grammar* is used, and the classical selections from Lanman's *Reader* are read. Lectures are given on the phonology and morphology of Sanskrit.

The courses in Comparative Philology and in Elementary Sanskrit will not, as a rule, be given in the same year.

Second Year Sanskrit.

One or two hours a week throughout the year.

The Vedic selections in Lanman's *Reader* are read, with some additional hymns from the *Rigveda*. Selections from the classical literature are read at sight. Exercises in etymology are given to supplement the lectures on the phonology.

Advanced Sanskrit.

Two hours a week throughout the year.

Selected texts are read: the *Bhagavad-Gītā*; Kālidāsa's *Çakuntalā*, Acts I and II, with a careful study of the Prākṛit; selected hymns of the *Atharvaveda*. During the second semester the course is conducted as a seminary, with use of the native commentaries.

Greek.

The instruction in this department is under the direction of Dr. Henry Nevill Sanders, Professor of Greek; Dr. Wilmer Cave Wright, Professor of Greek; and Miss Abby Kirk, Reader in Elementary Greek.

Exceptional facilities for the study of all departments of classical philology are offered by the large classical library owned by the College. The greater part of this library is formed by the well-known collection of the late Professor Hermann Sauppe of Göttingen, which was acquired in 1894. This has been supplemented by purchases made by the college library, so that the classical library now numbers some seven thousand volumes, including complete sets of most of the important journals, and about seven thousand dissertations and monographs.

GRADUATE COURSES.

The graduate seminars in Greek are varied from year to year in two series, Attic Tragedy, Orators, and Historians, and the Homeric Question, Plato, and Aristophanes, in order that they may be pursued by a student for consecutive years. Students electing Greek as a major subject for the degree of Doctor of Philosophy must offer not less than two seminars and the journal club for two years and if Greek be also elected as the associated minor the candidate must offer two seminars and one journal club for three years. A list of approved associated minors and independent minors is given in the Regulations of the Academic Council. The post-major courses also are open to graduate students. A large part of the work expected of graduate students consists of courses of reading pursued under the direction of the department, and reports of this reading are from time to time required of the students. A reading knowledge of French and German is required. The course in Comparative Philology is recommended to graduate students of Greek. For graduate courses in Classical Archæology, which may be offered as an associated or independent minor by students taking Greek as a major for the degree of Doctor of Philosophy, see page 112.

No undergraduates are admitted to graduate courses.

Dr. Sanders conducts in each year the following graduate seminary:

Greek Seminary.

Three hours a week throughout the year.

In 1921-22 Greek Orators are studied in the seminary. The work consists of the reading of large portions of all the orators and the critical interpretation of a selected part of each. Lectures are given on legal antiquities, the syntax, and the style of the various authors, in conjunction with which Dionysius of Halicarnassus and the Greek rhetoricians are studied. The later rhetoricians are treated and their criticism of antiquity investigated. Students are expected to provide themselves with the Teubner text editions of Antiphon, Andocides, Lysias, Isocrates, Isæus, Æschines, Hypercides, and Demosthenes. The classical library is well equipped with works on the orators.

In 1922-23 Greek historians will be the main subject of the seminary. Thucydides is studied in detail and reports are made on data of history contained in Greek literature in general. Lectures are given by the instructor on subjects connected with Greek historiography, such as the composition of Thucydides's history, the syntax and style of Thucydides, the history of early prose, Greek historical inscriptions.

In 1923-24 Attic Tragedy will be the subject of the seminary. The work of the seminary in textual criticism will be devoted to Sophocles. Members of the seminary report on assigned subjects and give critical summaries of current classical literature.

Dr. Wright conducts in each year the following graduate seminary:

Greek Seminary.

Two hours a week throughout the year.

In 1921-22 the Homeric Question is the subject of the seminary; the work consists of a review of the discussions of the Homeric poems since the publication of Wolf's *Prolegomena*. The various tests that have been applied to the poems by archæologists, linguists, historians of myths, and æsthetic critics are taken up and criticized in detail.

In 1922-23 Aristophanes will be the subject of the seminary. The aim of the seminary is to make the students familiar with the more important Aristophanic literature up to the present day. Portions of the text are interpreted by the class and reports on assigned topics, literary, historical, and archæological, connected with the plays are expected from all the members. All the comedies of Aristophanes are read in the course of the year; lectures are given by the instructor on the metres and syntax of Aristophanes, on the dramatic structure of the plays and on the history of Attic comedy. Part of the work consists of analyses of dissertations on Aristophanes which are presented by members of the class. Every member of the class should provide herself in advance with a complete text of Aristophanes. The Clarendon Press (Oxford) edition is recommended.

In 1923-24 Plato will be the subject of the seminary. The work is mainly literary and critical. Lectures on the style, philosophy, and chronology of the dialogues are given by the instructor; a detailed interpretation of a portion of Plato, and reports on topics set for discussion are given by the class. The students are expected to read the *Republic*, *Theætetus*, *Parmenides*, and *Sophist* and discuss certain problems arising from these dialogues. The aim of the course is to lay a foundation for independent work by familiarizing the students with the achievements of scholarship and the general field of Platonic literature up to the present day. Every member of the seminary should provide herself in advance with a complete text of Plato. The Clarendon Press (Oxford) edition is recommended.

Dr. Sanders and Dr. Wright together conduct the Greek journal club:

Greek Journal Club.

One and a half hours once a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent articles and books on subjects connected with the Greek classics.

POST-MAJOR COURSES.

Dr. Sanders offers in 1921-22 the following post-major courses, open to graduate students:

Æschylus, *Oresteia*.

Two hours a week during the first semester.

Fourth Century Critics.

One hour a week during the first semester.

Pindar.

Two hours a week during the second semester.

Sophocles, *Electra* or Euripides, *Electra*.

One hour a week during the second semester.

Dr. Sanders offers in 1922-23 the following post-major courses, open to graduate students:

Minor Orations of the Attic Orators.	<i>Two hours a week during the first semester.</i>
Sophocles, <i>Oedipus Coloneus</i>	<i>One hour a week during the first semester</i>
Æschylus, <i>Agamemnon</i> .	<i>Two hours a week during the second semester.</i>
Greek Prose Composition and the Evolution of Style.	<i>One hour a week during the second semester.</i>

Dr. Sanders offers in 1923-24 the following post-major courses, open to graduate students:

Æschylus, <i>Eumenides</i> .	<i>Two hours a week during the first semester.</i>
Sophocles, <i>Trachiniæ</i> .	<i>One hour a week during the first semester.</i>
Greek Rhetoricians and Greek Prose Composition.	<i>One hour a week during the second semester.</i>
Bacchylides.	<i>One hour a week during the second semester.</i>
Euripides, <i>Bacchæ</i> .	<i>One hour a week during the second semester.</i>

Dr. Wright offers in 1921-22 the following post-major courses, open to graduate students:

Palatine Anthology.	<i>Two hours a week during the first semester.</i>
Sophocles, <i>Ajax</i> .	<i>Two hours a week during the second semester.</i>

Dr. Wright offers in 1922-23 the following post-major courses, open to graduate students:

Melic Poets.	<i>Two hours a week during the first semester.</i>
Plato, <i>Republic</i> .	<i>Two hours a week during the second semester.</i>

Dr. Wright offers in 1923-24 the following post-major courses, open to graduate students:

Theocritus.	<i>Two hours a week during the first semester.</i>
Æschylus, <i>Septem</i> or Lucian.	<i>Two hours a week during the second semester.</i>

FREE ELECTIVE COURSES.

Dr. Wright offers in each year the following free elective courses:

History of Greek Literature.	<i>Two hours a week throughout the year.</i>
Greek Religion and Greek Myths.	<i>Two hours a week during the first semester.</i>

This course is supplementary to Greek and English literature and to Oriental and Classical Archæology and treats of the development of Greek religion, the attributes of

the Olympian Gods, such as Zeus and Apollo, their ritual, and the influence on literature of Greek myths.

Literary Geography of Greece and Asia Minor,

Two hours a week during the second semester.

This course traces not only the literary legends of famous sites such as Athens, Thebes, Troy and Constantinople, but also their political history.

Latin.

The instruction in this department is under the direction of Dr. Arthur Leslie Wheeler,* Professor of Latin, Dr. Mary Hamilton Swindler, Associate in Latin and Archæology; Dr. Susan Helen Ballou, Associate in Latin, and Mr. James Alexander Kerr Thomson, Lecturer in Latin.

GRADUATE COURSES.

The graduate work in Latin is conducted according to the seminary method, and is intended not only to broaden the student's knowledge, but also to teach methods of work. The graduate courses in Latin are varied from year to year in three series, Roman Lyric Poetry, Elegy, and Comedy, and Roman Religion, Latin Epigraphy and Palæography, and Roman Epic Poetry. Students electing Latin as a major subject for the degree of Doctor of Philosophy must offer not less than two seminars and the journal club for two years and if Latin be also elected as the associated minor the candidate must offer two seminars and the journal club for three years. A list of approved associated and independent minors is given in the Regulations of the Academic Council. It is desirable that all students who intend to do advanced work in Latin should have some knowledge of Greek. A reading knowledge of French and German is necessary.

No undergraduates are admitted to graduate courses.

Dr. Wheeler conducts in each year the following graduate seminary:

Latin Seminary.

Three hours a week throughout the year.

In 1921-22 *Latin Comedy is the subject of the seminary. All the plays of Plautus and Terence are read by the students; single plays form the basis of special work on the language, text, metres, etc. Students should provide themselves with the text edition of Plautus, edited by Goetz and Schoell, Leipsic, Teubner, 1892-1904, or that of W. M. Lindsay, Oxford, 1903-04, and with Dziatzko's text of Terence, Leipsic, Tauchnitz, 1884. The plays of Plautus, annotated by Brix, Leipsic, Teubner, 1901-12, and by Lorenz, Berlin, Weidmann, 1876-86, and the plays of Terence, annotated by Dziatzko (revised by Hauler), 1898 and 1913 (Teubner), and by Spengel, 1879 and 1905 (Weidmann), are also recommended. *P. Terenti Afri Commoediae*, edited by S. G. Ashmore, Oxford University Press, New York, 1908, is a convenient commentary.

* Granted leave of absence for the year 1921-22. The courses offered by Dr. Wheeler in this year are given by Mr. J. A. K. Thomson.

In 1922-23 Roman Lyric in the Period of the Republic will be the subject of the seminary. After a rapid survey of the fragmentary lyric remains of the predecessors and contemporaries of Catullus, the poems of Catullus himself are studied in detail. Students should have *Catulli carmina* (Oxford text, 1904), edited by Robinson Ellis, and either the same scholar's *Commentary on Catullus*, Oxford, Clarendon Press, 1889 (second edition), or G. Friedrich's *Catulli Veronensis liber*, Leipsic and Berlin, 1908 (Teubner).

In 1923-24 Roman Elegy as represented by Tibullus, Propertius, and Ovid will be the subject of the seminary. In addition to a careful study of selected poems an effort is made to trace the history of elegy among the Romans. The various topics connected with the subject are treated in detail as far as time permits, and the students are encouraged to familiarize themselves with the best literature in editions, periodicals, and dissertations. The texts recommended are the Oxford Clarendon Press editions of Catullus and Tibullus, edited by Ellis and Postgate, and the Leipsic (Teubner) text of Propertius, edited by C. Hosius, 1911. The best commentaries are Kirby Smith's *The Elegies of Tibullus*, New York, 1913 (American Book Co.), and M. Rothstein's *Die Elegien des Sextus Propertius*, Berlin, 1898 (Weidmann). For Catullus see Roman Lyric.

Dr. Ballou conducts in each year the following graduate seminary:

Latin Seminary.

Two hours a week throughout the year.

In 1921-22 the subject of the first semester is Latin Palæography. The facsimiles in the collections of Chatelain, Zangemeister and Wattenbach, and Arndt furnish acquaintance with the more important Roman and mediæval literary hands, and photographic reproductions are used for practical exercises in collation and text-emendation. In the second semester Pliny's Correspondence with Trajan forms the basis for the application of palæographic principles to text-criticism, and also for a study of Roman provincial administration.

In 1922-23 Cicero's correspondence will be the subject of the seminary. An effort is made to master typical textual and linguistic problems presented by this text, and more especially to extend the students' acquaintance with the Roman civilisation of Cicero's day.

In 1923-24 the subject of the seminary will be Roman Epic. After a preliminary study of the fragments of Naevius, Ennius and other epic writers of Republican Rome, the remainder of the year will be devoted to the Aeneid. There will be lectures and the students will present reports bearing on Vergil's sources and technique and the text of the poems.

Dr. Wheeler,* Dr. Swindler, Dr. Ballou and Mr. Thomson together conduct the Latin journal club.

Latin Journal Club.

One and a half hours once a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent articles, and books on subjects connected with the Latin classics.

POST-MAJOR COURSES.

Dr. Wheeler* offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

Roman Satire.

Two hours a week throughout the year.

The subject is treated historically in order to give an outline of the origin and development of Satire. The class reads selections from Horace, Persius, Seneca, Petronius, and Juvenal, together with some of the fragments of Ennius, Lucilius, and Varro. The readings are supplemented by occasional lectures. Each student is required to prepare papers and reports on assigned topics in each semester.

* See footnote, page 59.

Dr. Wheeler offers in 1922-23 and again in 1924-25 the following post-major course, open to graduate students:

Roman Elegy.

Two hours a week throughout the year.

An effort is made to trace historically the development of this branch of poetry among the Romans. Selections from Catullus, Tibullus, Propertius, and Ovid are read. The readings are supplemented by occasional lectures. Special attention is devoted to the structure and reading of the elegiac distich and to the characteristics of Roman poetic diction. Each student is required to prepare papers and reports on assigned topics in each semester.

Dr. Ballou offers in 1921-22 and again in 1923-24 the following post-major courses, open to graduate students:

Lucretius and Catullus.

Three hours a week during the first semester.

Selections from the *De Rerum Natura* and from the lyrics of Catullus are read.

Latin Prose Composition.

Two hours a week throughout the year.

Cicero and Cæsar.

Three hours a week during the second semester.

An effort is made by means of lectures, discussions, and extensive reading to gain an intimate acquaintance with the literary work and the political careers of Cicero and Cæsar.

Dr. Ballou offers in 1922-23 and again in 1924-25 the following post-major courses, open to graduate students:

The Life and Works of Vergil.

Three hours a week during the first semester.

The larger part of the *Aeneid*, two books of the *Georgics* and some of the minor poems are read and discussed.

Latin Prose Composition.

Two hours a week throughout the year.

Roman Prose of the Empire.

Three hours a week during the second semester.

Selections from Velleius, Seneca, Quintilian, Tacitus, Suetonius, Apuleius, and Minucius Felix are read.

MODERN LANGUAGES.

Professors and instructors: Dr. M. Carey Thomas, Dr. Fonger DeHaan, Miss Lucy Martin Donnelly,* Dr. Carleton Brown, Dr. Regina Katharine Crandall, Dr. Eunice Morgan Schenck, Dr. Samuel Claggett Chew,† Dr. Howard James Savage, Mr. Samuel Arthur King, Dr. Agnes Rutherford Riddell, Miss Marcelle Pardé, Dr. Eduard Prokosch, Mr. Claude Gilli, Dr. Charles Emil Kany, Dr. John William Draper, Dr. Christine Sarauw, Miss Katharine Forbes Liddell, Miss Amphilis T. Middlemore, Miss Mary Underhill, Miss Marthe Jeanne Trotain, and Miss Margaret Kingsland Haskell.

* Granted leave of absence for the year 1922-23.

† Granted leave of absence for the year 1921-22. The courses announced by Dr. Chew for this year are given by Dr. John William Draper.

English.

The instruction in this department is under the direction of Dr. M. Carey Thomas, Professor of English, Miss Lucy Martin Donnelly,* Professor of English, Dr. Carleton Brown, Professor of English Philology, Dr. Regina Katharine Crandall, Professor of English Composition, Dr. Samuel Claggett Chew,† Professor of English Literature, Dr. Howard James Savage, Associate Professor of Rhetoric and Director of the Work in English Composition, Mr. Samuel Arthur King, Non-resident Lecturer in English Diction, Dr. Eduard Prokosch, Associate Professor of German, and Miss Katharine Forbes Liddell, Miss Amphillis T. Middlemore and Miss Mary Underhill, Instructors in English, and Miss Margaret Kingsland Haskell, Reader in English.

GRADUATE COURSES.

There are offered each year graduate seminars and courses in English literature and in English language, and these seminars and courses are varied so as to enable candidates for the degree of Doctor of Philosophy to pursue graduate work for three or more successive years. The graduate instruction in English literature includes the direction of private reading and the assignment of topics for investigation. The graduate courses in literature presuppose at least as much knowledge as is obtained in the two years' course of undergraduate lectures on English literature and in one of the literature courses of the English major; and the graduate courses in Anglo-Saxon presuppose as much knowledge of Anglo-Saxon as is obtained in the language course in the English major. All students offering English as a subject for the degree of Doctor of Philosophy must have taken at least the equivalent of the composition in the required English course.

Students who elect English literature as their major subject in their examination for the degree of Doctor of Philosophy must offer English philology as the associated minor and those who offer English philology as a major subject must offer English literature as the associated minor. In the major together with the associated minor the student must offer two seminars and a journal club for three years. A list of approved independent minors is given in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

* Granted leave of absence for the year 1922-23. The courses announced by Professor Donnelly will be given by a substitute whose appointment will be announced later.

† Granted leave of absence for the year 1921-22. The courses announced by Dr. Chew for this year are given by Dr. John William Draper.

Miss Donnelly conducts in alternate years the following graduate seminary:

Seminary in English Literature.

Two hours a week throughout the year.

In 1922-23* Eighteenth Century Prose will be the subject of the seminary. Swift, Addison, and Steele will be studied. Attention will be given to their relations to both contemporary politics and literature.

In 1924-25 the Romantic Poets will be the subject of the seminary. Special attention is paid to Shelley and Byron and to the phases of Romanticism shown in their work. Their relations to their contemporaries in England and on the Continent are discussed.

In 1926-27 Donne and Milton are the subjects of the seminary. They are studied in their relation to such contemporary influences as Platonism and the Church and Puritanism and in especial to the sources and development of poetical style in the seventeenth century.

Dr. Brown conducts in each year the following graduate seminary:

Seminary in Middle English.

Three hours a week throughout the year.

In 1921-22 the Beginnings of English Drama are the subject of the seminary. After tracing the emergence of plays in the vernacular from the liturgical drama, the evolution of the leading English mystery cycles¹ is studied. In considering the morality plays their connection with mediæval allegories, debates, and didactic treatises² is specially examined. The lectures given by the instructor are designed to afford a general survey of the drama (both religious and secular) in England to the accession of Queen Elizabeth. Critical reports on assigned topics are required from the students.

In 1922-23 Middle English Romances will be the subject of the seminary. All the romances represented in Middle English are read, and the relation of these English versions to their Latin and Old French originals are discussed. The romance cycles are taken up in the following order: Troy story, Alexander saga, Arthurian cycle, romances of Germanic origin, Charlemagne cycle. Special investigations of problems relating to the romances are undertaken from time to time by the members of the seminary.

In 1923-24 the seminary will study *The Vision of Piers the Plowman* and the works of Chaucer. Attention is devoted not so much to the critical reading of the texts themselves as to the examination of the questions of authorship and chronology which have recently been raised. These poems are also discussed in their relation to the other literature of the fourteenth century. Special subjects for individual investigation are assigned to the members of the seminary.

Dr. Chew conducts in each year the following graduate seminary:

Seminary in English Literature.

Three hours a week throughout the year.

In 1921-22 the seminary is conducted by Dr. Draper and the subject is Spencer and his influence in the seventeenth, eighteenth and nineteenth centuries.

In 1922-23 various aspects of the literature of the Victorian era will be studied.

In 1923-24 the seminary will study the Elizabethan and Jacobean Drama.

Dr. Crandall conducts in each year the following graduate seminaries:

Seminary in English Composition.

Two hours a week throughout the year.

* See foot note page 62.

The chief business of the seminary is the discussion and criticism of the students' own writing. Its aim is to make familiar and apply the principles and standards of criticism that have developed with the development of literature; the subject of study in each year is adapted to the purpose and interests of the students.

In 1921-22 the seminary studies the manner of writers of biography and memoirs among others Boswell, Lord Morley, and Henry Adams.

In 1922-23 the subject of the seminary is historical writing and includes a study of the manner of Gibbon, J. R. Green, Motley, Parkman, and other historians.

In 1923-24 modern fiction, English, French, and Russian, is the subject of the seminary.

Seminary in American Literature for Foreign Students.

Two hours a week throughout the year.

The subject of the seminary is the history of American literature, more especially in the latter half of the nineteenth century. The seminary is intended primarily for foreign students and may not be counted for the degree of Doctor of Philosophy.

Dr. Brown offers in 1921-22 and again in 1923-24 the following graduate course:

Cynewulf and Cædmon.

Two hours a week throughout the year.

Several of the poems traditionally ascribed to these authors are critically studied. Lectures are given with a view to furnishing a thorough introduction to Anglo-Saxon Christian poetry and the literary problems connected with it. This course is open to graduate students who have already taken the course in Anglo-Saxon grammar and reading of Anglo-Saxon texts or its equivalent.

Dr. Brown offers in 1922-23 and again in 1924-25 the following graduate courses:

Beowulf.

Two hours a week throughout the year.

This course begins with a careful textual study of the Beowulf. After discussing the problems of editing, a general survey of Beowulf criticism is presented including theories as to the composition of the poem, and an inquiry into its historical and mythological elements. In this connection a study is also made of the other pieces of Anglo-Saxon heathen poetry. This course is open to graduate students who have already taken the course in Anglo-Saxon grammar and reading of Anglo-Saxon texts, or its equivalent.

English Historical Grammar.

Two hours a week throughout the year.

In this course the development of the English Language is traced from the earliest times. After an outline has been given of the history and external relations of English, the change and decay of inflections, the use of prepositions and the more important points in historical syntax are discussed. The course presupposes a knowledge of Anglo-Saxon and Middle English. The students examine various documents of the different periods to discover evidence of the operation of linguistic principles.

Dr. Savage offers in each year the following graduate course:

Technical and Advanced Criticism. *Two hours a week during the first semester.*

In this course attention will be given to bibliography, the tabulating of critical data, the planning and writing of papers, reports, and dissertations, critical usage, and other matters. Materials collected for other courses in research are available for use in this work.

Dr. Brown, Miss Donnelly,* Dr. Chew,* Dr. Crandall, Dr. Savage, and Dr. Prokosch together conduct the English journal club.

English Journal Club.

One and a half hours a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent reviews and critical articles.

The following advanced undergraduate courses may be attended by graduate students:

Miss Donnelly offers in 1921-22 and again in 1923-24 the following course:

English Romantic Poets.

Five hours a week during the second semester.

The poets studied in this course are Wordsworth, Coleridge, and Shelley in the first semester and in the second, Byron, and Keats. Their works are discussed in class in connection with questions of poetics and literary theory and reports are required from students attending the course.

Dr. Chew* offers in each year the following courses:

English Critics of the Nineteenth Century.

Five hours a week during the first semester.

Carlyle, Ruskin, Huxley, Arnold, Pater and Morley, and, if time allows, two or three other writers, are studied with regard to their theories of criticism and their influence upon the thought of their time. A report is required from each student attending this course.

The Elizabethan and Jacobean Drama.

Five hours a week during the first semester.

A large number of plays by the dramatists from Lyly and Marlowe to Ford and Shirley are read. The lectures deal in part with aspects of contemporary life as reflected in the drama. A report is required from each student attending this course.

Dr. Chew* offers in 1921-22 and again in 1923-24 the following course:

English Literature from Dryden to Johnson.

Five hours a week during the second semester.

The poets from Butler to Thomson; the philosophers from Hobbes to Hume; the novel from Defoe to Fielding; the beginning of English historical writing; and the essayists are the chief subjects studied in this course.

Dr. Chew offers in 1922-23 and again in 1924-25 the following course:

English Poetry, 1850-1914.

Five hours a week during the second semester.

A rapid review of the progress of poetry during the first half of the nineteenth century is followed by more detailed study of the poets of the later period.

* See footnote, page 62.

Dr. Brown offers in 1921-22 and again in 1923-24 the following courses:

Middle English Romances.

Five hours a week during the first semester.

Selected romances in Middle English are read by the members of the class. The lectures deal with the development of Romance literature in Europe with special reference to the romances of the Arthurian cycle, and the discussion includes a review of the development of mediæval themes in later periods.

Middle English Poetry, Chaucer.

Five hours a week during the second semester.

The course begins with an outline of Middle English grammar sufficient to enable the students to read ordinary texts intelligently. Lectures are given on the development of the language and literature during this period. In the course on Chaucer the best of the *Canterbury Tales* are studied, also the *Legend of Good Women*, *The House of Fame*, and portions of *Troilus and Criseyde*. The lectures discuss Chaucer's sources and literary art, and his relation to the English, French, and Italian literature of his time.

Dr. Brown offers in 1922-23 and again in 1924-25 the following courses:

Anglo-Saxon Prose and Beowulf.

Five hours a week during the first semester.

The first half of the course is devoted to an outline of Anglo-Saxon grammar as presented in Siever's *Old English Grammar* (Cook's translation) and to the reading of the prose selections in Bright's *Anglo-Saxon Reader*. After reading one or two of the shorter Anglo-Saxon poems, the *Beowulf* is taken up (Wyatt and Chambers' text) and the first two-thirds of the poem is read with the class.

Shakespeare.

Five hours a week during the second semester.

A careful study is made of a number of Shakespeare's plays, selected with a view to illustrating his earlier and later work. The plays usually chosen are: *King Lear*, *Henry IV*, Part I, *Hamlet*, *Romeo and Juliet*, and *The Tempest*. Some of the more general problems connected with these plays are discussed in introductory lectures and various topics are taken up, such as the principles of tragedy and comedy, the use of allegory and the development of Shakesperian criticism.

Dr. Crandall offers in each year the following elective course:

Argumentation.

Two hours a week throughout the year.

The writing of arguments, the study of the form with reference to other types of writing, and other problems connected with argumentation, formal and informal, make up the work of the course. If possible, some attention will be paid to oral composition.

Dr. Crandall offers in 1921-22 and again in 1923-24 the following elective courses:

Daily Themes.

Two hours a week during the first semester.

Short papers on subjects chosen by the students themselves are required from each student and discussed in the class.

Criticism.

Two hours a week throughout the year.

The course includes a study of the principles of criticism and the writing of critical expositions, the essay, and kindred forms.

Dr. Crandall offers in 1922-23 and again in 1924-25 the following elective courses:

The Short Story.

Two hours a week throughout the year.

The course deals with various forms of narrative, more especially the short story, and includes a study of the work of representative authors, both English and French.

Versification.

Two hours a week throughout the year.

The course is not historical but theoretical and practical. Students are required to write short exercises in verse every week.

Dr. Savage offers in 1921-22 and again in 1923-24 the following course:

The Technique of the Drama.

Two hours a week throughout the year.

This course is open only to those students who can assure the instructor that they can pursue the work with profit. It deals with the theory of the drama, the building of scenarios, adaptation, and the writing of original longer and shorter plays; and with the observation of dramatic technique in plays read and seen.

Dr. Savage offers in 1922-23 and again in 1924-25 the following course:

English Fiction in the Nineteenth Century.

Five hours a week during the second semester.

A study of the principal types of English prose fiction during the last century, the short story and the novel, with attention to their origins, development, and technique.

Dr. Savage offers in 1921-22 and again in 1923-24 the following course:

Materials and Methods of Teaching Composition.

Two hours a week during the second semester.

This course is intended for graduate students and for undergraduates who expect to teach English; its aim is to present some of the problems of collegiate instruction in composition: the planning and supervision of courses, reports on departments in various colleges, and allied problems. Practice in writing is gained through reports of varying character and length.

Mr. King offers in each year the following course in English Diction for graduate students:

General Course in Articulation and Voice Production.

One half hour a week throughout the year.

The object of this course is to train speakers in accurate and distinct articulation and to eliminate the faults of bad production. Speech is resolved into its phonetic elements which are made the basis of practical exercises so arranged as to be progressive in their difficulties.

Mr. King offers in 1921-22 and again in 1923-24 the following free elective course in English Diction:

Reading of Shakespeare.

One hour a week throughout the year.

This course is open only to those students who have taken the required course in English diction. A special study is made of the principles of correct delivery of blank verse. The needs of those students who intend to teach English literature, and desire to read Shakespeare to their pupils, are given special attention.

Mr. King offers in 1922-23 and again in 1924-25 the following free elective course in English Diction:

General Reading of Prose Authors.

One hour a week throughout the year.

This course is open only to those students who have attended the required course in English diction or who have done equivalent work.

ROMANCE LANGUAGES.

French.

The instruction in this department is under the direction of Dr. Eunice Morgan Schenck, Associate Professor of French; Mr. Claude Gilli, Associate Professor of Old French; Miss Marcelle Pardé, Associate in French, and Miss Marthe Jeanne Trotain, Instructor in French.

GRADUATE COURSES.

Ten hours a week of seminary work and graduate lectures are offered each year to graduate students of French, accompanied by the direction of private reading and original research. The courses covering the field of Old and Modern French Language and Literature are arranged to form a triennial cycle. The work of each year centres around one main topic to be studied as a part of the history of French literature in its various relations to general literature and civilization of the period concerned. Students may enter a seminary in any year and pursue it during three or more consecutive years. The members of the seminaries report on subjects assigned them at the beginning of each semester.

Students who choose French literature as their major subject in their examination for the degree of Doctor of Philosophy must offer French philology as the associated minor and students who offer French philology as a major subject must offer French literature as the associated minor. A list of approved independent minors will be found in the Regulations of the Academic Council. In the major together with the associated minor the student must offer two seminaries and a journal club for three years.

Dr. Schenck conducts in each year the following graduate seminary:

Seminary in Modern French Literature. *Two hours a week throughout the year.*

In 1921-22 the subject of the seminary is Nineteenth Century Drama. After a rapid survey of the theatre of the eighteenth century a careful study is made of the drama of Hugo, Dumas père, Vigny, and Musset, and the extent of the influence of Shakespeare on French romantic drama. The rise and development of realistic comedy are studied and the course closes with an examination of Post-Realism and Symbolism in contemporary French drama.

In 1922-23 the subject of the seminary will be Romanticism and Realism. The origins of romanticism are examined in the rise of "*le cosmopolitisme littéraire*," in eighteenth century French literature and especially in the works of Rousseau and Madame de Staël.

A parallel study of the theories underlying literary and historical realism is made in connection with Taine, Renan, Zola, and Maupassant.

In 1923-24 the subject of the seminary will be Phases of Romanticism in the Nineteenth Century as illustrated by Hugo, Gautier, and Flaubert. A special study will be made of the origin and development of the theory of *L'art pour l'art*.

Mr. Gilli conducts in each year the following graduate seminary:

Seminary in Mediæval French Literature.

Two hours a week throughout the year.

The work expected of graduate students in the seminary in Mediæval French Literature consists of a first hand knowledge of the texts, a review of the opinions expressed by the leading specialists on each subject and a critical discussion of the work in question. The reports are intended to train graduate students in literary research. Students are expected to have a good reading knowledge of Old French and it is recommended that the course in Advanced Old French philology be taken together with this seminary.

In 1921-22 the subject of the seminary is the origin and development of the *Chansons de Geste* and their influence in other European countries with special attention given to the *la geste royale*.

In 1922-23 *La Fable Esopique* and the *Roman de Renard* will be the subject of the seminary. The course will include a study of the *Æsopic* fables in the Middle Ages and treats in detail the extent to which the *Roman de Renard* is based on these fables. The *Ysopet* of Marie de France and the best "branches" of Renard are read.

In 1923-24 the subject of the seminary will be the *Matière de Bretagne et l'Epopée Courtoise*. The course includes a careful study of the *Lais* of Marie de France. The poems referring to Tristan and the *Romans* of Chrétien de Troyes. These are studied in connection with the question of their origin in Celtic countries and their later development in France.

Mr. Gilli offers in each year the following graduate courses:

Old French Philology.

Three hours a week throughout the year.

Historical Grammar of Old French, followed by Critical Reading of Old French texts. This course is equivalent to a full seminary and counts as such.

Introduction into the Study of Romance Philology.

One hour a week throughout the year.

The study of Vulgar Latin and its evolution in the various parts of the Roman Empire. A critical study of Inscriptions and Glossaries. In the second semester a comparative study of the Phonology of Old Provençal, Old Italian, and Old Spanish will be combined with a special study of easy Old Provençal texts. It is recommended that the course be taken together with advanced Old French Philology or Mediæval French Literature. Graduate students taking the graduate language courses in Italian and Spanish who have not had this course or its equivalent are strongly advised to take it at the same time, and will be given an allowance of three hours in the work required to make these courses equivalent to seminaries. The two courses will together be equivalent to a full seminary and will count as such.

Advanced Old French Philology.

One hour a week throughout the year.

This course is open only to graduate students who have already taken the graduate course in Old French Philology or its equivalent.

The different dialects of Old French, the reconstitution of texts from the MSS., and the elements of Paleography are the subjects of the course. It is recommended that this course be taken together with the Introduction to the Study of Romance Philology. The two courses will together be equivalent to a full seminary and will count as such.

Advanced Romance Philology.

One hour a week throughout the year.

This course is open only to graduate students who have already taken the graduate course in the Introduction to the study of Romance Philology or its equivalent.

The comparative philology of the various Romance languages including Roumanian is studied with a special consideration of the various Italian dialectical forms.

Mr. Gilli offers in each year the following graduate courses:

Old Provençal.

One hour a week throughout the year.

Historical Grammar of the Old Provençal language followed by a study of Old Provençal texts.

Anglo-Norman.

One hour a week throughout the year.

This course is specially intended for students of mediæval English language and literature who are recommended to take the course.

Miss Pardé offers in each year the following graduate course:

Modern French Literature.

Three hours a week throughout the year.

The method used in advanced literary instruction in France and known as the "*Explications de textes*" will be employed, students being required to give oral lessons and to write many short papers.

In 1921-22 authors of the eighteenth century are studied.

In 1922-23 the period selected will be the sixteenth century.

In 1923-24 seventeenth century authors will be studied.

Dr. Schenck, Mr. Gilli, Miss Pardé, Miss Trotain, Dr. Riddell, Dr. DeHaan, and Dr. Kany together conduct the journal club in Romance languages.

Romance Languages Journal Club.

One and a half hours a fortnight throughout the year.

The journal club is intended to make the advanced students familiar with all the important European periodicals and with new books dealing with Romance Philology. For each session of the club an important article chosen from some one of the various periodicals is assigned to a student for review. The student is also referred to previous articles or publications treating of the same subject as that of the review, and is expected to present to the club a chronological outline of the history and stages of the discussion on the given point. Thus the students become familiar with the names of leading Romance scholars and with the particular lines of research in which each of the latter excels. At the same time such reviews prepare the way for seminary work and original investigations.

POST-MAJOR COURSES.

Dr. Schenck offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

The Short Story (*Nouvelle*) in the Nineteenth Century.*Two hours a week throughout the year.*

In the first semester the *nouvelles* of the romantic period are studied in the works of Chateaubriand, Nodier, Vigny, Musset, Balzac, Mérimée, and Gautier. The lectures of the second semester treat the development and modification of realism by Flaubert, Zola, Daudet, Coppée, Loti, Bourget, France, and others, while a careful study of the technique of the *nouvelle* is made in connection with Maupassant.

Dr. Schenck offers in 1922-23 and again in 1924-25 the following post-major course, open to graduate students:

Modern French Drama.

Two hours a week throughout the year.

The course begins with a study of the plays of the Romantic period, and traces the development of French drama throughout the nineteenth century to the present day. The course is conducted by means of lectures, class-room discussion, and reports.

Miss Pardé offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

The Development of Social Ideals in French Literature.

Two hours a week throughout the year.

The following types will be studied: "Le chevalier" of the Middle Ages (La Chanson de Roland); "l'escolier" (François Villon); "l'homme de la Renaissance" (Montaigne, Rabelais); "l'honnête homme" of the 17th century (Molière, La Fontaine, Pascal); "le philosophe" of the 18th century (Voltaire, Rousseau); "le romantique" of the 19th century (Lamartine, Musset); "l'intellectuel" (Renan, Anatole France).

Miss Pardé offers in 1922-23 and again in 1924-25 the following post-major course, open to graduate students:

Evolution of French Lyric Poetry.

Two hours a week throughout the year.

The origins of modern French lyric poetry are discussed with special emphasis on the poets of the "Pléiade." The romantic movement, l'Ecole du Parnasse, and the later nineteenth century poets are also studied.

Miss Pardé offers in each year the following post-major course open to graduate students:

Masterpieces of French Literature.

One hour a week throughout the year.

This course is conducted according to the method of the "*Explication de textes*" used in the French Universities. The texts chosen represent typical phases of the French genius, and vary from year to year being chosen from the authors read in the two hour course offered by Miss Pardé so that the course may be taken in two consecutive years.

Mr. Gilli offers in each year the following post-major courses open to graduate students:

Advanced French Composition.

Two hours a week throughout the year.

Introduction to a Study of Historical French Grammar.

One hour a week throughout the year.

In this course the formation and development of French grammar will be studied with special emphasis on Modern French.

FREE ELECTIVE COURSE.

Dr. Schenck offers in each year the following free elective course open to graduate students:

Modern Tendencies in French Literature.

Two hours a week throughout the year.

Contemporary French writers are studied in relation to their predecessors and to modern movements. Lectures, class discussion and reports are in English; the reading in connection with the course is in French.

Only those students are admitted who have completed the course in General English Literature or the course in Major French Literature, and have passed the general language examination in French the autumn preceding their registration for this course. In special cases, where the general language examination has not been taken, the student must satisfy the instructor that her knowledge of French is sufficient for the course.

Graduate students desiring to take this course must satisfy the instructor that their previous literary training is equivalent to that required of undergraduate students, and that their knowledge of French is sufficient.

Italian.

The instruction in this department is given by Dr. Agnes Rutherford Riddell, Associate in Italian, and Dr. Christine Sarauw, Instructor in Italian, Spanish and German.

GRADUATE COURSES.

The graduate seminary in Italian is varied from year to year in order that it may be pursued by a student for consecutive years. Students electing Italian as a major subject for the degree of Doctor of Philosophy are required to offer French Philology as an associated minor. For the list of approved independent minors see the Regulations of the Academic Council.

Dr. Riddell conducts in each year the following graduate seminary:

Seminary in Italian Literature.

Two hours a week throughout the year.

In 1921-22 the subject of the seminary is the Epic, with special study of Boiardo, Ariosto, and Tasso.

In 1922-23 the subject of the seminary will be the Development of the Drama. The early drama, the *commedia dell' arte*, the drama of the eighteenth century, and the modern drama are studied.

In 1923-24 the subject of the seminary is the Development of the Short Story. The popular tale, the *novella*, and other manifestations of the story form are studied. Special attention is paid to the modern short story.

If necessary, modifications will be made in the work of the seminary to meet the special requirements of students presenting themselves for it.

POST-MAJOR COURSE.

Dr. Riddell offers in each year the following post-major course open to graduate students:

Modern Italian Drama.

Two hours a week throughout the year.

The course traces the development of the Italian drama from the time of Goldoni to the present day. Representative dramas will be read and discussed.

Spanish.

The instruction in this department is given by Dr. Fonger DeHaan, Professor of Spanish, Dr. Charles Emil Kany, Associate in Spanish, and Dr. Christine Sarauw, Instructor in Italian, Spanish and German.

GRADUATE COURSES.

The graduate seminary in Spanish is varied from year to year in order that it may be pursued by a student for consecutive years. Students electing Spanish as a major subject for the degree of Doctor of Philosophy are required to offer French Philology as an associated minor. For the list of approved independent minors see the Regulations of the Academic Council.

Dr. DeHaan conducts in each year the following graduate seminary:

Seminary in Spanish.

Three hours a week throughout the year.

In 1921-22 the prose works of Cervantes are studied.

In 1922-23 some typical plays of Lope de Vega will be the subject of the seminary.

In 1923-24 the *Novela picaresca* will be studied.

Dr. DeHaan offers in each year, if his time permits, the following graduate courses:

Spanish Philology.

One hour a week throughout the year.

Old Spanish Readings.

One hour a week throughout the year.

Dr. Kany conducts in each year the following seminary:

Seminary in Spanish Literature.

Two hours a week throughout the year.

In 1921-22 Spanish dramatic literature of the nineteenth century is studied.

In 1922-23 the novel in Spain from 1860 to the present time will be dealt with.

In 1923-24 Spanish lyric poetry of the last fifty years will be studied.

POST-MAJOR COURSES.

Dr. DeHaan offers in each year the following post-major course open to graduate students:

Advanced Spanish.

Two hours a week throughout the year.

During the first semester Cervantes' *Novelas Ejemplares* and *Don Quijote* are studied; during the second semester the dramatical and poetical works.

Dr. Kany offers in 1921-22 and again in 1923-24 the following post-major course open to graduate students:

The Spanish Short Story.

Three hours a week throughout the year.

This course begins with a study of the Spanish Short Story in the nineteenth and twentieth centuries and traces its origin back to the writers of the Golden Age. A special study is made of the modern tendencies represented by Pardo Bazán, Blasco Ibañez and José Francés. The course includes also a brief survey of the leading short story writers of Latin-America.

Dr. Kany offers in 1922-23 and again in 1924-25 the following post-major course open to graduate students.

Spanish Lyric Poetry.

Three hours a week throughout the year.

German.

The instruction in this department is under the direction of Dr. Eduard Prokosch, Associate Professor of German, and Dr. Christine Sarauw, Instructor in Italian, Spanish and German.

GRADUATE COURSES.

The graduate courses offered in German philology may be found under the head of General Germanic Philology.

Graduate work in the history of modern German literature is conducted according to the seminary method. The courses are so varied that they may be followed by graduate students throughout three successive years and cover the work required of students who offer German literature as a major or a minor for the degree of Doctor of Philosophy. Students who elect German literature as their major subject in the examination for the degree of Doctor of Philosophy must offer Germanic philology as an associated minor and students who offer Germanic philology as a major subject must offer German literature as an associated minor. In the major together with the associated minor the student must offer two seminars and a journal club for three years. A list of approved independent minors is given in the Regulations of the Academic Council.

Dr. Prokosch offers in each year the following graduate seminary:

Seminary in German Literature.

Two hours a week throughout the year.

It is hoped that the students will become familiar in the seminary with the methods of scientific literary criticism and investigation.

In 1921-22 Goethe is the subject of study in the seminary.

In 1922-23 topics from the classical period of German literature will be studied. Alternative subjects of study will be Luther and the Humanists or Nietzsche.

In 1923-24 the Romanticism of early modern German literature will be studied in the seminary.

Other subjects may be substituted in accordance with the needs of the students.

The German journal club is conducted in each year by the instructors in the department.

German Journal Club.

Two hours once a fortnight throughout the year.

At the meetings recent books and articles are reviewed and the results of special investigations presented for discussion, comment, and criticism.

GENERAL GERMANIC PHILOLOGY.

Special attention is called to the facilities for the study of comparative Germanic philology offered by Bryn Mawr College. The English and the German departments together have provided for a complete course in Germanic philology, comprising

both the study of the individual languages (Gothic, Norse, Anglo-Saxon, Old Saxon, Old High German, Middle High German, Middle Low German, etc.) and the study of general comparative philology.

The courses in introduction to the study of Germanic philology, Gothic, and Middle High German grammar, are designed for students in their first year of graduate study in Germanic languages, and the remaining courses for students in their second or third year.

Students intending to elect Germanic philology are advised to study Greek for at least one year during their undergraduate course.

GRADUATE COURSES.

Dr. Prokosch offers in each year the following graduate seminary.

Seminary in Germanic Philology.

Two hours a week throughout the year.

This seminary is arranged for the benefit of the most advanced students in Germanic philology. Its object is to encourage independent work on the part of the students. The work consists mainly of the discussion of special topics by the instructor and the students. Members of the seminary are expected to study the literature on these subjects, and to make an effort to contribute some additional material, or an independent opinion of their own.

In 1921-22 the seminary is devoted to High German texts from the fourteenth to the seventeenth century. The material is taken either from official documents of this period belonging to various parts of Germany or from the works of writers such as Murner, Hans Sachs, Luther, and others; or from grammatical works of this period in Müller's *Quellenschriften und Geschichte des deutschsprachlichen Unterrichts*, John Meier's *Neudrucke älterer deutscher Grammatiken*, etc. They are selected to illustrate the development of Modern High German. If it seems advisable Old Saxon texts (*Heliand* and *Genesis*) are also studied.

In 1922-23 Old High German texts such as *Merseburger Zaubersprüche*, *Muspilli*, and *Hildebrandslied* will be studied in the first semester. The many problems that these texts offer and the various attempts to solve them are discussed. In the second semester modern High German texts will be the subject of the seminary.

In 1923-24 the subjects of the seminary will be taken from Middle High German texts. Problems in text criticism as well as literary problems connected with the works of Middle High German poets either of the classical period or of the periods preceding or following it will be discussed.

The order of these seminary subjects may be changed in accordance with the requirements of the students in any particular year.

Dr. Prokosch offers in each year the following graduate courses with the understanding that only a limited number will be given, chosen with due regard to the wishes of graduate students:

Introduction to the Study of Germanic Philology.

One hour a week throughout the year.

After a discussion of the aim and method of historical and comparative grammar, these lectures deal with the relation of Germanic to the cognate Aryan languages. A brief sketch of the single Aryan languages is given, followed by a more comprehensive discussion of the Germanic languages and chiefly of the West Germanic branch.

Gothic.

Two hours a week throughout the year.

Gothic phonetics and inflection are studied in connection with the elements of comparative Aryan grammar; on the other hand the Gothic forms are compared with those of other Germanic languages. Braune's *Gotische Grammatik* (8th ed., Halle, 1912); or Streitberg's *Gotisches Elementarbuch* (3rd ed., Heidelberg, 1910) are used as text-books.

As a thorough knowledge of Gothic is the foundation of the study of historical and comparative Germanic grammar, every graduate student of Germanic grammar is advised to take this course as early as possible. *Die gotische Bibel* (ed. by W. Streitberg, Heidelberg, 1908) is used by the more advanced students. This class met four hours a week during the first semester in 1921-22.

Middle High German Grammar and reading of Middle High German Texts.

Two hours a week throughout the year.

This course includes a brief abstract of Middle High German grammar and literature with special reference to the difference between Middle High German and Modern German, and a study of the most prominent authors in Middle High German. Selections from classical Middle High German poets are read, and also selections from the *Nibelungenlied*, a brief account being given of the history and development of the *Nibelungenlied* and its manuscripts.

Students of Middle High German should be provided with Paul's *Mittelhochd. Grammatik* (8th ed., Halle, 1911), or Michels's *Mittelhochd. Elementarbuch* (2nd ed., Heidelberg, 1912).

This course is required of all students that make Germanic philology a minor subject in their examination for the degree of Doctor of Philosophy.

The private reading includes the works of the authors treated in the course.

Middle Low German.

One hour a week throughout the year.

A sufficient knowledge of Old Saxon is presupposed on the part of students taking this course. The Middle Low German grammar is studied and representative Middle Low German texts are read. This course may be substituted for the course in Middle High German in accordance with the requirements of the students in any particular year.

Old Norse.

Two hours a week throughout the year.

Students entering this course are supposed to be acquainted with Gothic and with Anglo-Saxon or Old High German grammar. In the grammatical part of the course the Norse sounds and forms are studied and compared with those of the Gothic and West-Germanic dialects. This class met four hours a week during the second semester in 1921-22.

In the first year's course prose texts will be read; in the second year the Edda will be studied and some of the problems connected with the study of the Edda will be discussed.

The books used are Heusler's *Altisländisches Elementarbuch* (Heidelberg, 1913) and some of the *Islendinga sögur* (*Altnordische Saga-Bibliothek*) and Hildebrand-Gering's (3rd ed., Paderborn, 1913) or Neckel's (Heidelberg, 1914) *Edda*.

Attention is called to the facilities afforded for the study of Old Norse. A considerable portion of the library of the late philologist, Th. Wisén, of Lund, was acquired by Bryn Mawr College, and hence the library is probably as well supplied as any other college library in the United States with Old Norse texts, and works on Old Norse language and literature.

Old High German.

Two hours a week throughout the year.

This course includes a practical study of Old High German grammar, and a comparison of the Old High German sounds and forms with those of Gothic, Middle and Modern High German. The relations with other cognate languages of the Germanic branch as well as other Aryan languages (chiefly Latin) are also discussed. Selections are read from Old High German texts, arranged so as to proceed from easy to more difficult pieces, and to illustrate the difference between the Old High German dialects.

Comparative Germanic Grammar.

One hour a week throughout the year.

The study of comparative Germanic philology is recommended to those students only who are acquainted with the single old Germanic languages, and have studied Gothic, Old High German, Old Saxon, Anglo-Saxon, and Norse. The object of the course is to compare the various old Teutonic languages with each other and with the related Aryan languages,—or in other words (1) to reconstruct the primitive Teutonic language; (2) to point out the characteristic features of primitive Teutonic in distinction from primitive Aryan; (3) to carry down the history of early Teutonic from the period of unity into the early stages of the individual Teutonic languages.

Old Saxon.

Two hours a week during the second semester.

The work presupposes on the part of the students a sufficient knowledge of Gothic and Old High German. Holthausen's *Altsächsisches Elementarbuch* (Heidelberg, 1900) or Gallée's *Altsächsische Grammatik* (2nd ed., Halle, 1910), *Heliand* (Behaghel's edition), and Zangemeister-Braune's *Bruchstücke der altsächsischen Bibeldichtung* (Heidelberg, 1894) are used.

History of Modern High German.

One hour a week throughout the year.

These lectures deal with the history of the development of the German written language during the Modern High German period. The most important *Kanzleisprachen*, the most prominent *Druckersprachen*, Luther, Modern German sounds and forms in their relation to the German dialects and to the rules of the *Bühnenaussprache*, will be discussed.

In addition to the above courses, others in Old Frisian, or Modern Low German may be arranged for students that have previously studied Gothic, Old and Middle High German, Anglo-Saxon, and Old Saxon. A course in Sanskrit is offered which is specially recommended for students of Germanic philology.

Semitic Languages and Biblical Literature.

The instruction in this department is under the direction of Dr. George A. Barton, Professor of Biblical Literature and Semitic Languages, and Dr. George A. Johnston Ross, Non-resident Lecturer in Christian Ethics.

The college was particularly fortunate in securing in the year 1892 the library of the late M. Arthur Amiaud, of Paris. While M. Amiaud was especially eminent as an Assyriologist, he was also prominent as a general Semitic student. His library was the collection of an active scholar, and forms a working library for the student in every department of Semitic study. It is especially rich in the Hebrew, Syriac, and Assyrian languages, containing several works, indispensable to the student, which are now out of print. Another Semitic library containing many works on the Talmud and on Jewish literature was acquired in 1904. Mr. Albert J. Edmunds presented to the college in 1907 his library of 500 volumes on the history of religion. The contents of these libraries, together with the

books already owned by the college and those easily accessible in neighbouring libraries, form an exceptionally good collection of material for the specialist in Semitic languages. A good working collection of cuneiform tablets is under the control of the department, and affords an excellent opportunity for students of Assyrian to become familiar with original documents.

GRADUATE COURSES.

The graduate courses in Semitic languages are varied from year to year, as indicated below, so that they may be pursued by a student for four successive years. Those who offer Semitic languages as the major subject in the examination for the degree of Doctor of Philosophy are required to spend in Semitic work half their time for at least three years.

The work of the department is so arranged that students may specialize in Hebrew or Assyrian. Students who offer Hebrew or Assyriology as the major subject in the examination for the degree of Doctor of Philosophy must possess a knowledge of the grammatical forms of five Semitic languages and in this enumeration Syriac and Jewish Aramaic may not count as separate languages. For a list of approved associated and independent minors see the Regulations of the Academic Council.

The regular alternation of courses is indicated below and at least six hours a week will be given in each year, the courses being selected according to the needs of the graduate students. Graduate students may enter in any year of the four years' course, as there will be afforded each year an opportunity for graduate students to begin Hebrew.

No undergraduates are admitted to graduate courses.

Dr. Barton offers in 1921-22 and again in 1923-24 the following graduate courses:

Semitic Seminary.

Two hours a week throughout the year.

This seminary is devoted to Hebrew or Assyrian, the languages that may be offered as major subjects for the doctor's degree. The time may be devoted to one of these languages, or may be divided between the two, according to the needs of the students. In Assyrian the subject may be chosen from one of the following: the oldest Babylonian inscriptions, temple archives of Telloh, Sumerian hymns, the code of Hammurabi, Semitic contracts or mythological poetry. In Hebrew one of the following subjects may be selected: the historical books, Job, the Psalter, Isaiah, Jeremiah, Ecclesiastes and the Song of Songs, or Hebrew Epigraphy. In the Hebrew seminary the students are trained in textual criticism through the use of the ancient versions.

Comparative Semitic Grammar.

One hour a week throughout the year.

The grammar of Brockelmann is used as a basis with comparisons from the Egyptian and other Hamitic languages. This course is given in the fourth year of the study of Semitic languages.

Ethiopic.

One hour a week throughout the year.

The grammar and *Chrestomathia* of Praetorius and Dillmann are used and in the latter part of the course selections are read from the book of Enoch.

Seminary in Aramaic and Arabic.

Two hours a week throughout the year.

This seminary is devoted to Arabic or Aramaic, the languages that may be offered as minor subjects for the doctor's degree. The time may be devoted to one of the languages, or may be divided between the two, according to the needs of the students. In Arabic the subject may be chosen from one of the following: the Coran, pre-Islamic poetry, Arabic geographers, or South Arabic inscriptions. In Aramaic, one of the following subjects may be selected: a comparative study of the Syriac Versions of the Gospels, the Syriac Version of one of the Old Testament books, the writings of Gregory Bar Hebraeus, or of Efraem, the Targum on one of the Old Testament books, the Talmud, or Aramaic inscriptions.

Egyptian.

One hour a week throughout the year.

The elements of Egyptian and Coptic grammar are taught, and some texts in each language interpreted.

Seminary in Oriental Archæology.

One hour a week throughout the year.

The work of this course may be devoted to the archæology of Mesopotamia, Palestine, or Egypt according to the needs of the students. It consists of extensive courses of reading in the literature of the subject, together with a study of photographs and archæological objects, of reports, criticisms, conferences, and occasional lectures. To meet the needs of students of ancient history, the seminary may in some years be devoted to the history of one of the countries mentioned. The work will then consist in a study of the sources of the history of the country chosen, and the proper method of using them.

Dr. Barton offers in 1922-23 and again in 1923-24 the following graduate courses:

Semitic Seminary.

Two hours a week throughout the year.

The work of the seminary is continued as offered in 1921-22.

Seminary in New Testament Greek.

One hour a week throughout the year.

The work of the seminary is varied from year to year, so that a continuous course, covering the interpretation and the literary problems of the entire New Testament and the sub-Apostolic literature, may be pursued through four years. A year is devoted to the New Testament Epistles, another to the interpretation of the Gospels and the Synoptic and Johannine problems, a third to the books of Acts and Revelation, and a fourth to the Apostolic Fathers. During the first year of her work each student is given guidance in a course of reading on the history of the text and the science of textual criticism and also guidance in the practice of this discipline. A course in Greek equivalent to the major course in Greek in Bryn Mawr College is required of students taking this seminary.

Seminary in the History of Religion.

One hour a week throughout the year.

The work of this seminary may be carried on in either of the following ways: By means of lectures, reports, and discussions the principal features of primitive religions are ascertained, and the principal civilized religions studied with special reference to origin, historical development, and religious point of view. The time may be devoted to investigating problems connected with one religion.

Elementary Semitic Languages.

Two hours a week throughout the year.

This course may be devoted to the elements of Hebrew, or of Aramaic (Syriac and Jewish Aramaic), or Assyrian, or Arabic according to the needs of the students. The time may, if necessary, be divided between two of these languages.

Hebrew Literature.

One hour a week throughout the year.

This course is devoted to a study of the Prophets, the Pentateuch, and the historical books of the Old Testament.

FREE ELECTIVE COURSES.

Dr. Barton offers each year one of the following free elective undergraduate courses in biblical literature; the course selected by the greatest number of students will be given:

History of the Old Testament Canon. *Two hours a week throughout the year.*

In this course the history of the composition of the books of the Old Testament and their collection into a canon are studied. Special attention is given to the literary form and purpose of each book.

History of the New Testament Canon. *Two hours a week throughout the year.*

In this course the history of the composition and collection of the books of the New Testament is studied. The instruction is given in lectures, and reading is assigned in the New Testament and in modern literature concerning it.

New Testament Biography. *Two hours a week throughout the year.*

The first semester of this course is devoted to a careful study of the life and teaching of Christ; the second semester to the life and teaching of St. Paul. The Gospels and Epistles are read, together with the most helpful of the modern works on these topics. The course is illustrated by photographs of the most important places connected with the lives of Christ and St. Paul.

History of Christian Doctrine. *Two hours a week throughout the year.*

In the first semester the study is devoted to the Old Testament conceptions of God, Sin, and Redemption, and to Christianity as presented by its Founder and by the apostles, and in the second semester the history of Christian doctrine from 100 A. D. to the present time is briefly reviewed, and problems presented by modern thought are touched upon.

The Religions of the World. *Two hours a week throughout the year.*

The course begins with a study in primitive religions of certain fundamental conceptions. The great historical religions of the world are then studied in outline with special reference to the origin, development, and fundamental ideas of each.

Dr. Barton offers in each year the following free elective undergraduate courses in Oriental History, which taken together cover the great civilizations of Asia and North Africa:

History of the Near East. *Three hours a week throughout the year.*

This course treats in broad outlines the history and civilization of the Classical Orient. The beginnings of the Hamito-Semitic race, and the influence of environment upon its primitive institutions are first studied. The separation of the races into the different nations is then traced, and the history of the principal Oriental nations, Egyptians, Babylonians, Assyrians, Phœnicians, Hebrews, Hittites, Sabæans, and Persians; of Alexander and his successors; of the Parthians, and the oriental empire of the Romans, is followed in outline. Special attention is paid to the history of the Hebrews, and to their unique religious contribution to the civilization of the world. The course concludes with a study of the Arabic caliphates, and of Mohammedan civilization. The lectures are illustrated by archaeological specimens and by photographs. Either semester may be elected separately.

History of the Far East. *Two hours a week throughout the year.*

This course treats in outline the history of China, India, and Japan from the earliest times to the present. It aims to acquaint the student with the origin, development, and principal features of the civilizations of those lands.

Dr. Ross offers in 1921-22 and again in 1922-23 the following elective course:

Studies in Christian Ethics.

Two hours fortnightly throughout the year.

A study of the contribution of the New Testament to the moral life of man. Lectures are given on such subjects as the Ethics of Paul and Jesus, the Petrine, Jacobean and Johannine Ethic; Ethics in early Christian literature.

History.

The instruction in this department is under the direction of Dr. Howard Levi Gray, Professor of History, Dr. William Roy Smith, Professor of History, and Dr. Charles Wendell David, Associate Professor of European History.

GRADUATE COURSES.

Three distinct seminaries, two in Mediæval and Modern European history and one in American history, are offered to graduate students in history in addition to a course in Historical Bibliography and Criticism and the direction of private reading and original research. Students may offer either European History or American History as a major for the degree of Doctor of Philosophy. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Gray conducts in each year the following graduate seminary:

Seminary in Mediæval and Modern European History.

Three hours a week throughout the year.

In 1921-22 the seminary is concerned with the history of England during the Hundred Years' War. Diplomatic negotiations, innovations in military science, the new taxation necessitated, the hostility not infrequently shown to the government, the social changes associated with the Black Death and the Peasants' Revolt, the doctrines advocated by Wiclif, the rise of the woollen industry and of a native merchant class, are among the subjects to which consideration is given.

In 1922-23 aspects of Yorkist and Tudor England will be studied. Among these are the significance of the War of the Roses, the rise of a new nobility, the character of the absolutist government, the renunciation by the English Church of papal authority, the consequent dogmatic and social changes, the commercial rivalry and the conflict with Spain.

In 1923-24 the seminary will be devoted to the problems of contemporary Europe and relies upon recent historical literature. The genesis, the progress, and the results of the world war furnish the topics for study. Attention is given to the development of the industrial society of the second half of the nineteenth century, to the staging of the conflict by national interests and rivalries, to the adaptations required by the war, and to changes attendant upon reconstruction and influenced by the commanding position of labour in the social order of the day.

Dr. William Roy Smith conducts in each year the following graduate seminary:

Seminary in American History.

Two hours a week throughout the year.

In 1921-22 the Revolution, the Confederation, and the Constitution are the subjects of study. American history from 1776 to 1789 is discussed primarily from the local point of view as a step in the conflict between the seaboard aristocracy and the democracy of the frontier. The social and economic forces which led to the adoption of the Federal Constitution and the subsequent formation of national political parties are investigated.

In 1922-23 the seminary will deal with the Civil War and Reconstruction. Special stress is laid upon the social, economic, and political reorganization of the South, the North and the West and also of the nation as a whole during the period from 1861 to 1877.

In 1923-24 the subject of the seminary is slavery and the negro problem. After a preliminary survey of the history of slavery in the colonial period such topics as the slavery compromises of the constitution, the growth of slavery in the South, the abolition of the slave trade, the Missouri Compromise, the anti-Slavery movement, nullification, the Mexican War, the Wilmot Proviso, the compromise measures of 1850, the Kansas-Nebraska bill, the Dred Scott decision, the abolition of slavery, and the adoption of the thirteenth, fourteenth, and fifteenth amendments are discussed. Special attention is paid to the conflict between sectionalism and nationalism and the connection between slavery, territorial expansion, and the development of constitutional theories.

All students offering this seminary for the degree of Doctor of Philosophy are required to offer in addition the course in Historical Bibliography and Criticism.

Dr. David conducts in each year the following graduate seminary:

Seminary in Mediæval and Modern European History.

Two hours a week throughout the year.

In 1921-22 the subject of the seminary is the French Revolution. Topics are selected for study from various periods and phases of the Revolution with a view to illustrating different kinds of historical problems, gaining an acquaintance with the principal printed sources and secondary works, and extending the student's knowledge of the revolutionary movement as a whole. Attention is paid to social and economic conditions, to political institutions, and to the intellectual movement under the Old Régime, as being essential to an understanding of the Revolution itself; and in the period beginning with 1789 the economic and social aspects and consequences of the revolutionary movement are steadily borne in mind.

In 1922-23 the subject of the seminary will be England during the transitional period of the late eighteenth and early nineteenth centuries. The genesis and development of the parliamentary reform movement are traced from 1768 to the passage of the Reform Act of 1832. Special attention is devoted to the influence of the French Revolution on English opinion and to the effects of the long struggle with revolutionary France and with Napoleon upon English internal history. The Industrial Revolution, with the grave social and economic consequences which it involved, is also made a subject of special study.

In 1923-24 the subject of the seminary will be England during the twelfth and thirteenth centuries. Special attention is paid to institutional and cultural developments, and to English continental possessions and connections.

Dr. David offers in each year the following graduate course:

Historical Bibliography and Criticism.

One hour a week throughout the year.

Historical bibliography is the subject of the course during the first semester. Special attention is paid to bibliographical guides; to libraries, archives and manuscript collections; to important sets of printed sources; to the development of historical studies since the Renaissance; and to the work and rank of leading historians of the nineteenth century. Historical analysis and synthesis are treated during the second semester. Special attention is paid to the external and internal criticism of documents; to the auxiliary sciences; to the arrangement and presentation of the results of historical research; and to the relation of history to science. The course consists of informal lectures and supplementary reading, with some assigned topics illustrative of the problems under discussion. This course must be elected by all students in history during their first year of graduate study.

Dr. Gray, Dr. William Roy Smith, and Dr. David, conduct in each year the historical journal club.

Historical Journal Club.

Two hours once a fortnight throughout the year.

The instructors in the department of history and the graduate students who are pursuing advanced courses in history meet once a fortnight to make reports upon assigned topics, review recent articles and books, and present the results of special investigations

POST-MAJOR COURSES.

Dr. Gray offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

England under the Tudors.

Three hours a week throughout the year

Attention will be given to the character of Tudor absolutism, parliamentary and local government, dynastic ambitions, foreign trade, the prosperity of the towns, and the yeomen, the progress of the Reformation, and the complications in foreign affairs arising from religious changes. The reading and reports will be based largely upon contemporary documents.

Dr. David offers in 1922-23 and again in 1924-25 the following post-major course, open to graduate students:

The French Revolution and Napoleon. *Three hours a week throughout the year.*

This course treats of the history of France and of Europe from 1789 to 1815, by means of lectures, assigned readings, and reports. The period is considered as an organic whole and the career of Napoleon is regarded as that of a child of the Revolution who in his later years abuses what has made him. The increasing mass of secondary material is appraised and some printed documentary material is used for reports and references.

Dr. William Roy Smith offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

American Constitutional History to 1783.

Two hours a week throughout the year.

The text-books used in the course are MacDonald's *Select Charters of American History* and *Select Documents of the History of the United States*. The members of the class are also systematically referred, not only to the general authorities, but also to colonial charters and constitutions, the records of the colonial governments as far as they are available, the journals of Congress, and other documentary materials.

Dr. William Roy Smith offers in 1922-23 and again in 1924-25 the following post-major course, open to graduate students:

American Constitutional History from 1783 to 1865.

Two hours a week throughout the year.

The lectures deal with the leading aspects of the political, constitutional, and economic history of the United States from the ratification of the constitution to the present time. The text-book used is MacDonald's *Select Documents of the History of the United States*.

but frequent additional references are given to the leading secondary authorities. To a limited extent use will be made of such documents as are available in the library, and special topics will be assigned for discussion and report.

ELECTIVE COURSE.

Dr. David offers in 1921-22 and again in 1923-24 the following free elective course, open to graduate students:

Civilization of the Ancient World. *Three hours a week throughout the year.*

Special attention is paid to Greece and Rome; but extended consideration is also given to the subject of pre-history, to the early civilizations of western Asia, Egypt, and the Aegean region, and to the influence of environment, race, and culture upon human development. The evolution of civilization as a whole, from earliest times to the fourth century A. D., is presented in a single synthesis. A somewhat similar method has recently been adopted by Mr. H. G. Wells in his popular *Outline of History*.

Economics and Politics.

The instruction in this department is under the direction of Dr. Marion Parris Smith, Professor of Economics and Politics, Dr. Charles Ghequiere Fenwick, Professor of Political Science, and Miss Marjorie Lorne Franklin, Instructor in Economics and Politics.

GRADUATE COURSES.

Three seminars, one in economics and two in political science, are offered each year in addition to the direction of private reading and original research. Post-major courses amounting to five hours a week which may be elected by graduate students are given in each year. Students may offer either economics or politics as their major subject for the degree of Doctor of Philosophy. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Marion Parris Smith conducts in each year the following graduate seminary:

Economic Seminary. *Two hours a week throughout the year.*

The object of the seminary is to train students in methods of research and to give them practice in using the sources of economic history and theory.

In 1921-22 the Industrial Revolution and the Mechanical Revolution in Great Britain and in America in the eighteenth and early nineteenth centuries are studied.

In 1922-23 the Tariff, Currency and Banking in the United States from 1790 to 1865 will be the subjects of the seminary.

In 1923-24 the Theories and Problems of Distribution in the modern industrial states will be studied. Special attention is paid to wage problems, the limitation of profits and profit sharing, income and excess profits taxation, land reforms, and projects for controlling monopolies.

Dr. Fenwick conducts in each year the following graduate seminary:

Political Seminary.

Three hours a week throughout the year.

The methods of instruction in the seminary are designed to guide advanced students in special research work along the lines indicated by the titles of the courses. Some lectures are given but the main attention is devoted to the presentation and criticism of the results of studies made by the students themselves.

In 1921-22 Constitutional Questions involved in Modern Economic and Social Problems are the subject of the seminary. The chief economic and social problems of the United States are studied from the point of view of the restrictions placed by the Constitution upon the legislative powers of Congress and of the several states dealing with those subjects. As an introduction the various theories relating to the proper functions of the state are discussed.

In 1922-23 Comparative Constitutional Government is the subject of the seminary. The object is to compare and contrast the several forms of constitutional government represented by the United States, Great Britain, France and Germany, together with a study of the new constitutional governments of Russia, Czecho-Slovakia, and China, if proper material be available. Among the questions raised are the location of sovereign power, the authority of the constitution, the restrictions placed by the constitution upon the governing bodies, and the protection afforded by the constitution to the rights of individuals and minorities.

In 1923-24 the Constitutional Law of the United States will be the subject of the seminary. The decisions of the Supreme Court of the United States form the basis of the work. Special stress is laid upon the relations between the federal and state governments, interstate commerce, and due process of law under the Fourteenth Amendment. Students are required to present brief reports upon assigned cases in the first semester and to prepare a longer report upon a group of cases in the second semester.

Miss Franklin conducts in each year the following seminary:

Seminary in Municipal Government.

Three hours a week throughout the year.

This seminary deals with the structure and functions of modern municipal government. The legal relation of the city to the state, city charters, various types of city government, including the commission and city-manager forms, are considered in the early part of the course. A study of modern municipal administration follows, including municipal finance and budgetary problems, city planning, housing, public health and sanitation, franchises and public utilities. The discussion of modern agencies for research in city government is supplemented by practical field work at the Philadelphia Bureau of Municipal Research.

Dr. Marion Parris Smith, Dr. Fenwick, and Miss Franklin conduct in each year the economics and politics journal club.

Economics and Politics Journal Club.

Two hours once a fortnight throughout the year.

At the meetings recent books and articles are reviewed and the results of special investigations presented for discussion, comment, and criticism.

POST-MAJOR COURSES.

Dr. Marion Parris Smith offers in 1921-22 and again in 1923-24 the following post-major course open to graduate students:

The Economic Background of American Foreign Trade.

Three hours a week throughout the year

This course is divided into three sections with a brief historical introduction. Part I is devoted to American trade with Europe; Part II, Pan-American trade; Part III, Oriental trade. The general object of the course is to study the economic factors involved in American foreign trade, its extent and the chief problems presented and the degree of American dependence on the markets of other countries. Each student presents during the year a number of short reports which are discussed in the class. The aim of this method is to familiarize the students with the general subject, to give them certain precise bibliographical knowledge, and to afford some training in the arrangement and presentation of economic material.

Dr. Marion Parris Smith offers in 1922-23 and again in 1924-25 the following post-major course, open to graduate students:

American Economic and Social Problems. *Three hours a week throughout the year.*

The object of this course is to trace certain social movements in the United States from 1865 to the present time. Special studies are made of the changes in rural and urban population; the development of city life; the problems of country life; immigration, the race problem; problems of food distribution and marketing, cost of living, etc. Special topics are assigned to students for reports and attention is given to the use of original source material.

Dr. Fenwick offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

International Law.

Two hours a week throughout the year.

The object of this course is to present the rules of international law as a positive system with an historical background of custom and convention. Use is made of judicial decisions of British and American courts applying the principles of international law wherever such cases are in point, and an endeavour is made to determine the precise extent to which a given rule is legally or morally binding upon nations. In view of the importance of the question of international reorganization at the present time stress is laid upon the problems involved in a League of Nations.

Dr. Fenwick offers in 1922-23 the following post-major course, open to graduate students:

Constitutional Questions involved in Modern Social and Economic Problems.

Two hours a week throughout the year.

In this course the chief economic and social problems of the United States are studied from the points of view of the restrictions placed by the Constitution upon the legislative powers of Congress and of the several states when dealing with those subjects. Decisions of the federal and state courts form the basis of the course.

Miss Franklin offers in each year the following post-major course, open to graduate students:

Municipal Government,

Two hours a week throughout the year.

During the first semester the course deals with the historical development of municipal government, the causes of municipal corruption and disorganization, and the newer forms of constructive organization such as the commission and city-manager types of municipalities. On the basis of this introduction a study of municipal administration follows, covering

such topics as municipal finance, town planning, public health, and sanitation. Class discussions and reports will be supplemented by observation trips and inspection of municipal departments in Philadelphia. In the second semester a comparative study is made of conditions in British, French and German municipalities.

FREE ELECTIVE COURSE.

Dr. Fenwick offers in each year the following free elective course, open to graduate students:

Elements of Law.

One hour a week throughout the year.

The object of the course is to familiarize the student with the principles and technical terms of those branches of private law with which the ordinary citizen is brought into contact. The subjects covered include Persons and Domestic Relations, Contracts, Torts, Real and Personal Property, and the chief forms of Procedure. The lectures are supplemented by a study and discussion of court cases bearing on the subject. The course is open only to students who have pursued a course in economics and politics or in history for at least five hours a week for a year.

Social Economy and Social Research.

The Carola Woerishoffer Graduate Department of Social Economy and Social Research.

This department was opened in the autumn of 1915 and is known as the Carola Woerishoffer Graduate Department of Social Economy and Social Research in order that the name of Carola Woerishoffer may be associated in a fitting and lasting way with Bryn Mawr College which she so generously endowed. The department affords women an opportunity to obtain advanced scientific training in social and industrial work to which Carola Woerishoffer devoted her life.

The instruction in this department is under the direction of Dr. Susan Myra Kingsbury,* Carola Woerishoffer Professor of Social Economy and Director of the Carola Woerishoffer Department of Social Economy and Social Research; Dr. Neva Deardorff, Associate Professor in Social Economy; Miss Henrietta Additon, Non-resident Lecturer in Social Economy; Mrs. Eva Whiting White, Non-resident Lecturer in Social Economy; Miss Gladys Boone, Instructor in Social Economy; Dr. Alice Hamilton, Special Lecturer on Industrial Poisons; with the co-operation of the following members of the closely allied departments of Economics and Politics, Psychology, Education, and Philosophy: Dr. Marion Parris Smith, Pro-

* Granted leave of absence for the year 1921-22. The courses announced by Professor Kingsbury are given by Dr. Neva Deardorff.

fessor of Economics; Dr. Charles Ghequiere Fenwick, Professor of Political Science; Miss Marjorie Lorne Franklin, Instructor in Economics and Politics; Dr. Theodore de Leo de Laguna,* Professor of Philosophy; Dr. James H. Leuba,* Professor of Psychology; Dr. Clarence Errol Ferree, Professor of Experimental Psychology; Dr. Gertrude Rand, Associate in Experimental and Applied Psychology; Dr. Matilde Castro,* Professor of Education; Dr. Ada Hart Arlitt, Associate in Educational Psychology; Miss Georgiana Goddard King, Professor of the History of Art; Dr. Howard James Savage, Associate Professor of Rhetoric and Director of the work in English Composition; Dr. David Hilt Tennent, Professor of Biology, and Mr. Samuel Arthur King, Non-resident Lecturer in English Diction. The seminars and courses given by these instructors and enumerated below are specially adapted for students of Social Economy and Social Research.

Pre-requisites.

The courses in Social Economy and Social Research are intended for graduate students who may present a diploma from some college of acknowledged standing. No undergraduate students are admitted although graduate students in the department may elect, subject to the approval of the Director of the Department, undergraduate courses in other subjects.

Students of this department should offer for admission to their graduate work a preliminary course in economics, and more advanced courses equivalent to the Bryn Mawr College major course in economics, politics, sociology, psychology, philosophy, or history, and also preliminary work in psychology†, sociology or biology, or should follow such courses while taking the work of the department.

The courses are planned for one, two, and three years, on the principle that about two-thirds of the student's time shall be given to the study of theory and the remaining one-third to practical work in her chosen field. Students entering the department are expected to pursue the work throughout one

* Granted leave of absence for the year 1921-22. The courses offered by these professors are given by substitutes whose appointments are announced under the announcement of their departments.

† The importance of psychology may make it necessary to advise students without adequate preparation in this subject to take certain psychological courses as a part of their required work. In some fields of work laboratory courses should be included in the preparation.

year at least. After one year of work in this department one-half year may be given to a practicum in residence in a social service institution, in connection with a social welfare or community organization, in a federal or state department of labour and industry, in a federal or state employment office, or in a manufacturing or mercantile establishment in Philadelphia, New York, New England, or elsewhere, during which time the practical work and special reading and research will be supervised by the instructor in charge of the practicum and the head of the institution, department, or business firm. Students specializing in industrial relations and personnel administration are required to devote two months to work in an industrial or mercantile establishment during the summer following this work at the college. This work is carefully supervised by an instructor in the Department. Opportunities for summer practice in other fields are also arranged.

The fields from which a subject for the practicum may be chosen are as wide as are the organized activities for social welfare. Advantage has been taken by the department of the very generous interest and co-operation of the Philadelphia social agencies, federal and state departments and manufacturers and merchants to secure for its students definite affiliation with practical work in the fields chosen by them. This has led in the years 1915-22 to an arrangement for co-operative work with the College Settlement, the Girls' Department of the Glen Mills Schools (Sleighton Farms), the Municipal Court, the Society for Organizing Charity, the Women's Trade Union League, the Social Service Department of the University of Pennsylvania Hospital, the Bryn Mawr Community Center, the Massachusetts Minimum Wage Commission, the Federal Children's Bureau, the Children's Aid Society, the Philadelphia Children's Bureau, the Consumers' League, the Seybert Institution, the White-Williams Foundation, The American Red Cross, the U. S. Employment Service, and the State Department of Labour and Industry. *Practicum.*

The following business firms are a few of those who have afforded opportunity for practical work in industrial supervision and employment management.

American Pulley Company, Atlantic Refining Company, Barrett Company, Bell Telephone Company, Edward G. Budd Manufacturing Company, A. M. Collins Company, Curtis Publishing Company, Henry Disston & Sons Company, Eddystone Munitions Works, General Electric Company, American International Shipbuilding Corporation at Hog Island, Leeds Northrup Company, Link Belt Company, Midvale Steel Corporation, Miller Lock Company, Notaseme Hosiery Company, Fayette R. Plumb Company, John B. Stetson Company, Sutro Hosiery Company, John Wanamaker.

*Certificates
and
degrees.*

Graduates of Bryn Mawr College or of other colleges that have completed the required preliminary work in Economics and Psychology and are able to study for one year only will receive Certificates in Social Economy stating the courses they have completed satisfactorily.

Graduate students that have completed the required preliminary work who are able to study for two years will receive Certificates in Social Economy stating the courses they have completed satisfactorily.

The degrees of Master of Arts and of Doctor of Philosophy in Social Economy and Social Research are open to graduates of all colleges of high standing under the conditions prescribed for these degrees* in Bryn Mawr College.

Six seminars, three including practicums, and five graduate courses, are given each year in the Carola Woerishoffer Graduate Department in addition to seminars and courses in economics, politics, education, philosophy, psychology, literature, and art. Direction of investigation and research in special fields, and supervision of the practicum in social and industrial welfare accompanies the seminars and courses. The seminars and courses announced by the department are given in rotation so that different courses may be taken in consecutive years. The selection of courses depends upon the field of Social Economy which the student may choose. A seminary in Social Economy or a seminary in Social Theory, and, unless previously taken, undergraduate courses in Elements of Statistics and in Articulation and Voice Production are required of all students of the department.

GRADUATE COURSES.

The following graduate seminars and courses may be elected subject to the approval of the Director of the Department by students working for the first and second year certificates as well as by candidates for the degree of Master of Arts or of Doctor of Philosophy in Social Economy and Social Research, or may be offered as the associated or independent minor with the approval of the Director of the Department when the major is taken in certain other departments according to the regulations of the Academic Council.

* For requirements for the degrees of Master of Arts and of Doctor of Philosophy, see pages 36 to 39.

Dr. Kingsbury offers in 1922-23, and Dr. Deardorff offers in 1921-22 the following graduate seminary:

Seminary in Social and Industrial Research.

Three hours a week throughout the year.

Research in Social Economy involves two distinct types of studies. First, that which uses manuscripts or printed documents as sources of information and second, that which secures data concerning human relations and social conditions from individuals, groups, organizations, or institutions. Both phases of social research necessitate an ability to discover cause and effect, to see the relations and interpret the interaction of social forces, to recognize and evaluate the factors conditioning or controlling social situations, and to establish facts concerning social phenomena.

Consequently, training in the acquisition, arrangement, analysis, and interpretation of data is essential for students undertaking either phase of social research. As other seminars in the Department and allied departments deal primarily with the first type of studies, this seminary is devoted exclusively to the second type. A subject is selected and arrangements made which will require students to secure social data by work in the field. The material is then organized, analyzed, and interpreted by the members of the seminary. In this way, training is given in filling out schedules, classifying data, drawing up tables, analyzing results, and interpreting material as a whole. The group of students may cooperate to produce a study which it is hoped will prove a contribution to our knowledge of social or industrial conditions.

In 1921-22, the seminary is making a study of women in the labor movement in Philadelphia.

In 1922-23, the seminary will be selected from the following aspects of Social and Industrial Problems: (1) social relations, (2) vocational opportunities and demands, (3) standards of living, including income and wages, (4) the relation of health and industry, (5) industrial relations of women and minors.

As the chief subjects of investigation will vary from year to year, as noted above it will be possible for students to follow the work of the seminary for two consecutive years.

Dr. Deardorff offers in 1921-22 and again in 1923-24 the following graduate seminary:

Seminary in the Family as a Social Institution.

Two hours a week throughout the year.

A study is made of theories regarding the origin and evolution of the family as a social institution. The patriarchal theory, the theory of the horde and mother-right, and the theory of the monogamous or pairing family are reviewed and criticised; the methods of study of social origins are examined; the grouping, customs and functions of the family among primitive peoples and among the great historic peoples are studied. Finally modern theories as to the future of the family and its relation to the other social institutions are considered.

Dr. Deardorff offers in 1922-23 and again in 1924-25 the following graduate seminary:

Seminary in Races and Peoples.

Two hours a week throughout the year.

A study is made of the definitions of race, of theories regarding the origin and evolution of races, and of the sociological characterization of peoples. This is followed by studies in special problems of immigration and assimilation in the United States.

Miss Boone offers in each year the following graduate seminaries:

Seminary in Labor Organization.

Two hours a week throughout the year.

A knowledge of the general concepts of labor economy and of the outline of Labor Organization history is assumed. The seminary begins with a survey of the history of Labor Organization in the United States showing the parallelism between the growth of Labor Organizations and of Industrial Organization and Employers' Associations and also showing the influence of European labor movements and successive waves of immigration. It then discusses present union groups in America, types and principles of organization and union policies and practices. These are linked up with the theories of the Labor Movement and it is shown that both theory and practice are conditioned by the law relating to labor.

The development of a better understanding between employer and employee is traced through the early phases of collective bargaining to modern schemes such as the National Industrial Councils in Great Britain, the national agreements in the clothing and printing trades in the United States and experiments in cooperative production.

Seminary in Research in Labor Problems.

Two hours a week throughout the year.

This seminary must be preceded by the seminary in Labor Organization or its equivalent. The general field of research is that covered by the Seminary in Labor Organization and some phases of the course in Industrial Supervision and Personnel Administration. The special subjects treated are determined by the urgency of current problems or the particular interests of the students. Material collected by the students is discussed in conference and presented in reports.

Dr. Castro offers in 1922-23 the following graduate seminary:

Seminary in Social Education.

Two hours a week during the second semester.

The Essentials of Educational Theory and Practice for Community Workers are studied in this seminary. The subjects dealt with serve as an introduction to the educational principles involved in the intelligent direction of such activities as community centres, settlement classes, clubs, etc. Among the subjects studied will be the characteristic mental and physical development of childhood, adolescence, youth, and maturity. This study will be used as a basis for the selection of the educational materials and methods appropriate to the needs and capacities of different groups of varying ages and differing educational opportunities.

Dr. Leuba* offers in each year the following graduate seminary:

Psychological Seminary.

Two hours a week throughout the year.

As the foundation of the work of the seminary one or two of the following subjects will be chosen each year: the psychology of mental and moral deficiencies with reference to the social problems they present, including case studies and research work in problems of delinquency; instinct, feeling, and emotion; the psychology of religion and of ethics; social psychology; abnormal psychology (mental disorders, the Freudian psychology, etc.).

Dr. Leuba* offers in each year the following graduate seminary:

Seminary in Social Psychology.

Two hours a week during the first semester.

In 1921-22 and again in 1923-24, abnormal psychology, chiefly mental and moral deficiency and its social implications or temperament and character, their instinctive and emotional foundation, will be the subject of the seminary.

In 1922-23 and again in 1924-25, the principles of social psychology and their applications to social problems are the subject of the seminary.

* See footnote, page 88.

This seminary is open to students who have pursued an elementary course in psychology. It may be elected separately or may be combined with the seminary in Social and Political Philosophy given in the second semester to count as a seminary in the Department of Social Economy and Social Research.

Dr. Theodore de Laguna* offers in 1922-23 and in each succeeding year the following graduate seminary:

Seminary in Social and Political Philosophy.

Two hours a week during the second semester.

The topics chosen for discussion will vary from year to year. Among them will be such subjects as: the general nature of law; sovereignty and allegiance; the conception of personal liberty; property; punishment; marriage and the family; moral education. This seminary is open to students who have pursued an elementary course in philosophy. It may be elected separately or may be combined with the seminary in Social Psychology given in the first semester to count as a seminary in the Department of Social Economy and Social Research.

Dr. Kingsbury* and Mrs. White offer in each year the following graduate seminary:

Seminary in Social Economy Applied to Community Organization and Administration.

Two hours a week throughout the year.

This seminary includes the Practicum in Community Organization and Administration. It combines practical work in social and community education with reports and discussions. It must be accompanied by the course in Community Organization and must be preceded or accompanied by the seminary in Social Education—Essentials of Educational Theory and Practice for Social Workers—or its equivalent. In addition to reports and conferences, seven or twelve hours a week, according to election, are devoted to active work in a social center or settlement by which the student gains vital illustration of the principles and organization of community work.

The practice work is so arranged as to give to the student training in the following activities:

- (1) Direction and teaching of clubs and classes as observers, visitors, helpers and assistants.
- (2) Regular daily management as assistants and later as directors.
- (3) General administrative assistance in office work, including record-keeping, in library work, in activities to secure publicity, in preparation of newspaper articles, reports, posters, exhibits, parades, dramatics, plays, festivals, demonstrations, concerts, and lectures, in public speaking and writing, and in conducting financial campaigns and special studies.
- (4) Teaching in night schools of classes in civics and elementary subjects, and conducting games, dramatics, gymnastics, playgrounds and kindergarten activities.
- (5) Co-operation with civic movements, community campaigns and emergency activities, school programs and publicity.

Training in the theory and supervision of practice in Physical Education may accompany this seminary.

Two or three months of non-resident practice in social centers and settlements, playgrounds or fresh-air camps may be arranged for the summer following the resident work at Bryn Mawr.

The fields from which the subject for the practicum may be chosen are community, civic and social centers, settlements, playgrounds, and health and recreation centers, and have included the Bryn Mawr Community Center, The Philadelphia College Settlement and work in smaller neighboring communities.

* See footnote, page 87.

Dr. Deardorff and Miss Additon offer in each year the following graduate seminary:

Seminary in Social Economy Applied to Social Relief and Social Guardianship.

Two hours a week throughout the year.

This seminary includes the Practicum in Social Relief and Social Guardianship. It must be accompanied by the course in Social Treatment of Dependents, Delinquents, and Defectives. Field work is carried on 7 to 12 hours per week according to election with such agencies as the following: The Philadelphia Society for Organizing Charities; The Home Service Department of the Red Cross; The Children's Bureau, an agency which investigates all complaints concerning children; The Children's Aid Society, a child-placing agency; The White-Williams Foundation; Hospital Social Service Departments and the various agencies dealing with delinquents.

The field work with these agencies is under the supervision of Dr. Deardorff and Miss Additon and of the director of the particular agency or department. In addition to the regular practice work, students are taken on observation trips to courts, almshouses, orphanages, asylums, institutions for the feeble-minded, the blind, the crippled, hospitals, etc.

Miss Boone offers in each year the following graduate seminary:

Seminary in Social Economy Applied to Industrial Supervision and Personnel Administration.

Two hours a week throughout the year.

This seminary includes a practicum in Industrial Supervision and Personnel Administration, and consists of 7 or 12 hours field work per week in industrial experience in or near Philadelphia and two months of non-resident industrial experience. During the period of residence at Bryn Mawr, the field work is devoted to assisting in an employment office, while group observation trips are regularly arranged. In the non-resident period the student, in addition to experience in the employment office, by being transferred from process to process, is enabled by plant supervision to see not only the conditions of work but the adjustment of employment problems to the other factors of industry. Experience may also be afforded in the state employment service and in factory inspection. In connection with this seminary, each student must take the course in Industrial Supervision and Personnel Administration, and must precede or accompany it by the Seminary in Labor Organization or the equivalent.

Dr. Deardorff and Miss Additon offer in each year the following graduate courses:

Social Treatment of Dependents, Delinquents and Defectives.

Two hours a week throughout the year.

This course aims toward the preparation of the student to handle the individual case problems arising out of dependency, defect and delinquency. This involves a study of the methods of investigation of the individual case, the objectives and methods of treatment, the agencies, both public and private, for giving expert services, special forms of care and assistance and legal custody. Studies are made of the adaptation of fundamental principles of investigation and treatment to particular forms of social maladjustment and physical and mental defect. The student is acquainted with the theories of social responsibility with reference to these classes, of preventive measures already in effect, and of opportunities to extend preventive measures.

The following courses are open to graduate students by special arrangement:

Criminal Law.

Two hours a week throughout the year.

By special arrangement with the Law School of the University of Pennsylvania students in this department may pursue the course in Criminal Law offered by Dean Mikell at the Law School, Thirty-fourth and Chestnut Streets, Philadelphia.

This course may accompany the course in Social Treatment of Delinquents and Defectives (Criminology).

Criminal Procedure.

Two hours a week throughout the year.

By special arrangement with the Law School of the University of Pennsylvania students in this department may pursue the course in Criminal Procedure offered by Dean Mikell at the Law School, Thirty-fourth and Chestnut Streets, Philadelphia.

This course must be preceded by the course in Criminal Law.

Miss Boone offers in each year the following graduate courses: Industrial Supervision and Personnel Administration.

Two hours a week throughout the year.

The course deals with the problems and technique of Personnel Administration. It considers the organization and functions of a personnel department and the relation of that department to the industrial or commercial organization. The practical problems of building up and maintaining a stable working force are discussed and in this connection emphasis is laid on the analysis of labor turnover and on the training and supervision of employees. The course also presents the possibilities of cooperation between the personnel department and public employment services, the schools and recreational and educational agencies supported by the community at large.

Any outline of this course must be somewhat tentative as the experience drawn upon in its presentation is constantly changing and increasing and much of the material is obtained from current publications. The following survey suggests the scope of the course:

I. Personnel Administration: function; scope; fundamental problems.

II. Employment Management: selection of employees:—sources of labor supply; job analysis and specifications; applications and interviews; physical examinations; tests.

III. Training and Instruction: for foreman; for minor executive; for new employees; for promotion.

IV. Maintenance of Working Force:

(a) Conditions of Employment: wages; hours of labor; health and safety; scientific management.

(b) Relation of Management to Workers: follow-up; promotions and transfers; absenteeism and tardiness; discipline and complaints; service work; employee representation.

V. Organization of a Personnel Department: plan of organization; survey of plant; office equipment; records and files.

VI. Relation to Other Executives: production manager; foremen; industrial engineer; safety engineer; sanitary expert; fatigue expert; sales manager.

VII. Relations with Community: schools; industrial education; organizations; government boards; movements for improved industrial housing and proper transportation for personal and social development and recreation and for social care and aid; industrial commissions.

The course must be preceded or accompanied by the seminary in Labor Organization or Industrial Organization or the equivalent, and by the seminary in Social Economy, including the Practicum in Industrial Supervision and Personnel Administration.

Advanced Statistics.

Two hours a week throughout the year.

This course attempts to study intensively the subjects of correlation and causation, or the functional relationships between series of facts. The main considerations of the course are the method of least squares, the theory of linear correlation, skew distribution, partial correlation, and the theory of contingency.

The course must be preceded by the course in Elements of Statistics or its equivalent, and a foundation in mathematics including the Calculus is desirable to facilitate ease in comprehension.

If accompanied by the Special Research in Statistics the course becomes equivalent to a seminary.

Special Research in Statistics.

Seven hours of laboratory work a week throughout the year.

This course including laboratory analysis and reports is offered in each year in connection with the course in Advanced Statistics and the two courses taken together are equivalent to a seminary.

Mrs. White offers in each year the following graduate course:

Community Organization.

Two hours a week throughout the year.

The theory upon which community work is based and the technique used in its conduct are presented in this course to accompany the field practice which is carried on under the Seminary in Social Economy Applied to Community Organization. Experience of the student in the field is constantly used to exemplify the principles formulated.

In the first semester the following subjects are covered:

- (1) A study of the history of the development of the community, of its physical aspects and its political and social organization.
- (2) Analysis of Primary and Universal Groups including the relation of the individual to these groups.
- (3) Survey of the Field of Social Work. The place of Community Organization in the progress of society.
- (4) Major industrial, social, and political problems and the application of the findings of sociology, economics, psychology, political science to the solving of those problems.
- (5) Principles of Case Work to be used in Community Organization.

In the second semester the work includes:

- (1) First steps in organizing a community including methods of approach to strategic groups and to strategic individuals. Formation of a representative governing body. The community survey. Method of deciding on a program of action.
- (2) Questions of management. Committee organization. Staff organization. Budget making and accounting. Records. Office systems. Selection, training, and supervision of volunteers. The community building; its equipment and operation.
- (3) Community finance and Publicity. The Community Chest. The growth of local federations of social and civic agencies.
- (4) Group Organization. The club, class or society. Age groupings. Special interest groups. Methods of gauging the personal and social needs of the individual through group action. Educational, civic, social, recreational programs for groups.
- (5) Units of Community Organization: city or town, neighborhood, block.
- (6) Community Cooperation with city or town governments, with public health agencies, with schools, with social and philanthropic agencies, with civic bodies and with churches.
- (7) Public and private forms of Community Organization. Use of school buildings and of libraries as community centers. The development of public recreation systems, playgrounds and parks. Extension work of national departments. The program of the Red Cross, of Community Service, and the Social Settlement. The local improvement society and the Community Council.

The course also takes up the question of legislative procedure, town planning, housing, the cooperative movement, and citizenship programs.

Miss King offers in each year the following graduate course:

Community Art.

Two hours a week throughout the year.

Dr. Savage offers in each year the following graduate course:

Technical and Advanced Criticism. *Two hours a week during the first semester.*

In this course attention will be given to bibliography, the tabulating of critical data, the planning and writing of papers, reports, and dissertations, critical usage, and other matters. Materials collected for other courses in research are available for use in this work.

Mr. King offers in each year the following course in English Diction for graduate students:

General Course in Articulation and Voice Production.

One half hour a week throughout the year.

The object of this course is to train speakers in accurate and distinct articulation and to eliminate the faults of bad production. Speech is resolved into its phonetic elements which are made the basis of practical exercises so arranged as to be progressive in their difficulties.

Dr. Kingsbury, Dr. Deardorff and Miss Boone conduct in each year the Social Economy Journal Club.

Social Economy Journal Club. *Two hours once a fortnight throughout the year.*

Current books and articles are reviewed, recent reports, surveys and investigations are criticized, and the results of important research are presented for discussion.

Dr. Marion Parris Smith offers in each year the following graduate seminary:

Economic Seminary. *Two hours a week throughout the year.*

In 1921-22 the Industrial Revolution and the Mechanical Revolution in Great Britain and in America in the eighteenth and early nineteenth centuries are studied.

In 1922-23 the tariff, currency and banking in the United States from 1790 to 1865 will be the subjects of the seminary.

In 1923-24 the Theories and Problems of Distribution in the modern industrial state will be studied. Special attention will be paid to the limitation of profits and profit sharing, income and excess profits taxation, land reforms and projects for controlling monopolies.

Dr. Fenwick offers in each year the following graduate seminary:

Political Seminary. *Three hours a week throughout the year.*

The methods of instruction in the seminary are designed to guide advanced students in special research work along the lines indicated by the titles of the courses. Some lectures are given but the main attention is devoted to the presentation and criticism of the results of studies made by the students themselves.

In 1921-22 Constitutional Questions involved in Modern Economic and Social Problems are the subject of the seminary. The chief economic and social problems of the United States are studied from the point of view of the restrictions placed by the Constitution upon the legislative powers of Congress and of the several states dealing with those subjects. As an introduction the various theories relating to the proper functions of the state are discussed.

In 1922-23 Comparative Constitutional Government is the subject of the seminary. The object is to compare and contrast the several forms of constitutional government represented by the United States, Great Britain, France and Germany, together with a study of the new constitutional governments of Russia, Czecho-Slovakia, and China, if proper material be available. Among the questions raised are the location of sovereign power, and authority of the constitution, the restrictions placed by the constitution upon the governing bodies, and the protection afforded by the constitution to the rights of individuals and minorities.

In 1923-24 the Constitutional Law of the United States is the subject of the seminary. The decisions of the Supreme Court of the United States form the basis of the work. Special stress is laid upon the relations between the federal and state governments, interstate commerce, and due process of law under the Fourteenth Amendment. Students are required to present brief reports upon assigned cases in the first semester and to prepare a longer report upon a group of cases in the second semester.

Miss Franklin conducts in each year the following seminary:

Seminary in Municipal Government. *Three hours a week throughout the year.*

This seminary deals with the structure and functions of modern municipal government. The legal relation of the city to the state, city charters, various types of city government, including the commission and city manager forms, are considered in the early part of the course. A study of modern municipal administration follows including municipal finance and budgetary problems, city planning, housing, public health and sanitation, franchises and public utilities. The discussion of modern agencies for research in city government is supplemented by practical field work at the Philadelphia Bureau of Municipal Research.

Dr. Castro* offers in each year the following graduate seminary:

Seminary in Educational Methods and Measurements.

Two hours a week throughout the year

The seminary takes up the principles of educational methods and teaching technique. The latter part of the work deals with the theory and practice of educational measurements. The special subjects considered vary from year to year.

Dr. Arlitt offers in each year the following graduate seminary:

Seminary in Intelligence Tests.

Two hours a week throughout the year.

Laboratory Work in Intelligence Tests.

Four hours a week throughout the year.

The work of the seminary is devoted to a critical survey of the field of mental tests. The laboratory work includes training in the use of tests followed by the practical application of them in schools.

Dr. Rand offers in each year the following graduate seminary:

Seminary in Applied Psychology.

Two hours a week throughout the year.

Laboratory Work.

Four hours a week throughout the year.

This course combines seminary, laboratory drill and research features, and covers the psychological aspects of mental testing with special application to problems of vocational guidance and to the testing of normal adults, adult and juvenile delinquents and defectives.

In the seminary work, the requirements of mental tests, their standardization and statistical treatment are considered. The laboratory drill work consists of training in the application of general intelligence and diagnostic tests to normal children and adults. This furnishes a standard of the normal reaction to the tests as well as practice in giving

* See footnote, page 88.

the tests. Later the work will be with delinquents and defectives. The research work will be done in connection with Vocational Guidance Bureaus. Two problems will be considered here: (a) the devising and standardizing of specific tests for diagnosing ability for different vocations; and (b) the determination of the average level of intelligence needed to meet the demands of different vocations. The course is open only to graduate students who have had training in experimental psychology.

Special Laboratory Problems in Applied Psychology.

Four hours a week throughout the year.

This course is offered in connection with the course in Applied Psychology to students who wish to pursue more advanced work.

The following advanced undergraduate courses are offered to students in the department:

Dr. Kingsbury offers in each year the following courses, open to graduate students:

Applied Sociology.

Two hours a week throughout the year.

The first semester's work includes a brief survey of populations, especially of the United States, and a study of the racial, national, economic and social factors which determine standards of living. The course then considers the forces which contribute to the formation of society, the processes through which society has evolved and the final product in social institutions. This discussion having provided a concept of the nature of society affords a point of departure from which to consider social conditions and organized efforts for social betterment. In the second semester the course includes a survey of the origin, growth, and present methods of the most important social service organizations in order to acquaint the student with the fields of activity in which social work is being carried on: (1) social education, through settlements, civic centers or other neighborhood organizations; (2) improvement of industrial conditions, through associations for labor legislation, labor organizations, or consumers' efforts; (3) child welfare, through societies for care and protection of children; (4) family care, through organizations for the reduction and prevention of poverty; (5) social guardianship, through the probation work in the juvenile courts or corrective institutions.

This course is open to students who have attended the course in Minor Economics.

Record Keeping and Social Investigation.

One hour a week throughout the year.

The object of the course is to acquaint the student with the principles and methods of record keeping and filing which are applicable to municipal, state, and federal offices, to business organizations, and to social organizations and investigation, and with the methods of securing, analyzing, interpreting and presenting social data. The best systems in use will be analyzed and studied. Formulation of the various types of schedules, tabulation of information secured, and the framing of tables are among the subjects considered. The course concludes with a critical study of the methods used in social economic investigations, of sources of social statistical information, and of reports by federal and state departments and by private organizations.

Miss Boone offers in each year the following free elective course, open to graduate students:

Elements of Statistics.

One hour a week throughout the year.

This course deals with the elementary principles of statistics and their application. Among the topics are the array, frequency distributions, averages, measures of variation, probability and theory of errors, theory of sampling, index numbers, logarithmic curves, graphic methods, comparisons, and the elements of linear correlation.

The course is recommended to students of social economy and of economics. No knowledge of mathematics beyond the requirements for matriculation is presupposed.

Dr. Marion Parris Smith offers in 1922-23 and again in 1924-25 the following post-major course, open to graduate students:

American Economic and Social Problems.

Two hours a week throughout the year.

The object of this course is to trace certain social movements in the United States from 1865 to the present time. Special studies are made of the changes in rural and urban population; immigration, the race problem; the development of city life; the problems of country life; problems of food distribution and marketing, cost of living, etc. Special topics are assigned to students for reports and attention is given to the use of original source material.

Dr. Marion Parris Smith offers in each year the following major course, open to graduate students:

History of Economic Thought and Recent Economic Problems.

Five hours a week during the second semester.

The course is divided into two parts: Part I aims to give students an historical introduction as a basis for a critical study of modern economic problems. The students read in connection with this section parts of Adam Smith's *Wealth of Nation*; Ricardo's *Principles of Political Economy and Taxation*; Malthus's *Principles of Population*; and selections from the writings of John Stuart Mill, Jevons, Wicksteed, Boehm-Bawerk, and Pantaleoni.

In Part II certain modern economic problems are considered in some detail: distribution under socialism, co-operation, profit sharing, the minimum wage, the eight-hour day, tax reforms, price fixing, etc. Numerous short papers in connection with the reading, and one long report on some specially assigned subject are required.

Dr. Fenwick offers in each year the following major course, open to graduate students:

Present Political Problems.

Five hours a week during the first semester.

The object of this course is to present the chief political problems that have arisen in recent years. The study of practical problems is preceded by a study of theories relating to the origin and nature of the state, its end or object, and the proper sphere of state activities, under which last heading the various theories of individualism, liberalism, and socialism will be studied. Modern reforms in federal, state, and city government are next studied, and particular stress is laid upon the extension of federal power in the United States and the relation between the Fourteenth Amendment and modern social and economic legislation adopted in the exercise of the police powers of the several states.

Dr. Fenwick offers in each year the following free elective course, open to graduate students:

Elements of Law.

One hour a week throughout the year.

The object of the course is to familiarize the student with the principles and technical terms of those branches of private law with which the ordinary citizen is brought into contact. The subjects covered include Persons and Domestic Relations, Contracts, Torts, Real and Personal Property, and the chief forms of Procedure. The lectures are supplemented by a study and discussion of judicial decisions bearing on the subject.

Dr. Rand offers in each year the following major course, open to graduate students:

Applied Psychology.

Five hours a week during the second semester.

The specific applications of psychology form the subject matter of this course. An important feature is the application to the work of the clinic. Demonstrations are made of mental equipment and individual practice is given in mental testing. The applications of psychology to law, medicine, vocational guidance, advertising, etc., are briefly considered. Four hours a week of laboratory work is required from students taking the course. A knowledge of psychology equivalent to that obtained in the minor experimental course is presupposed.

Dr. Ferree and Dr. Rand offer in each year the following minor course:

Experimental Psychology.

Five hours a week during the first semester.

Laboratory Work.

Four hours a week during the first semester.

(Open only to those students who have taken the required course in psychology or its equivalent.)

The lectures constitute an abbreviated course in systematic psychology in which the historical, critical, and theoretical features of the subjects covered are discussed and the experimental features demonstrated. Especial stress is laid on the comparative study of method. The laboratory work consists of individual practice in selected topics.

Dr. T. de Laguna* offers in each year the following minor course, open to graduate students:

Elementary Ethics.

Five hours a week during the first semester.

The course begins with a survey of the development of typical moral standards in the course of human progress from primitive to modern conditions. This is followed by a critical study of the theory of moral values, with especial reference to the phenomena of moral evolution. The concluding weeks are devoted to an introduction to the more general problems of Social Philosophy in their bearing upon the ideals of English and American liberalism.

Dr. Leuba* offers in each year the following major course, open to graduate students:

Social Psychology: The Psychology of Group Life and of the Main Social Institutions.

Five hours a week during the first semester.

Dr. Castro* gives in each year the following undergraduate course, open to graduate students:

Education.

Two hours a week throughout the year.

The course interprets modern educational problems from the standpoint of their social setting; develops the psychological principles underlying the technique of teaching and demonstrates their application; sketches the mental, moral, and physical development of children from infancy through adolescence, and discusses the treatment of children individually and in groups in school and extra-school activities.

It is conducted as a general survey course covering the subject-matter indicated, or various topics are stressed and studied more intensively according as the interests of the class vary from teaching to social work or to a more general interest in educational problems.

* See footnote, page 88.

Dr. Arlitt offers in each year the following undergraduate course, open to graduate students:

Experimental Educational Psychology. *Three hours a week throughout the year.*

Laboratory Work.

Two hours a week throughout the year.

In the first semester a study is made of sensori-motor learning, perceptual learning, and learning of the problem-solving type. Particular emphasis is laid on the conditions and methods of efficient study and on the training of memory.

In the second semester the course takes up the study of school subjects from the point of view of laboratory experimentation and a survey of the field of group and individual tests and educational scales and measurements.

Dr. Savage offers in 1921-22 and again in 1923-24 the following free elective course:

The Technique of the Drama.

Two hours a week throughout the year.

This course is open only to those students who can assure the instructor that they can pursue the work with profit. It deals with the making of scenarios, adaptation, and the writing of original longer and shorter plays; and with the observation of dramatic technique in plays read and seen.

Dr. Tennent offers in each year the following free elective course, open to graduate students:

Theoretical Biology.

One hour a week throughout the year.

This is an historical course dealing with the development of the theories of biology. The course is open to students who have had one year's training in science. A considerable amount of assigned reading is required.

Philosophy.

The instruction in this department is under the direction of Dr. Theodore de Leo de Laguna,* Professor of Philosophy, Dr. Grace Mead Andrus de Laguna,* Associate Professor of Philosophy, and Dr. Ethel Ernestine Sabin, Associate in Philosophy.

GRADUATE COURSES.

A seminary in the history of philosophy is offered each year and a seminary in ethics and one in logic and metaphysics are offered in alternate years. The subjects of study are changed from year to year through a cycle of four years. A seminary in social and political philosophy is offered in the second semester of each year. Ten hours a week of advanced undergraduate courses are also open to graduate students. Students electing philosophy as their major subject for the degree of Doctor of Philosophy may emphasize either metaphysics or ethics. For the list of approved associated and independent minors see the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

* Granted sabbatical leave of absence for the year 1921-22. The courses offered by Dr. Theodore de Laguna and by Dr. Grace Mead Andrus de Laguna are given by Dr. Sabin.

Dr. Theodore de Laguna conducts in alternate years the following graduate seminary:

Ethical Seminary.

Two hours a week throughout the year.

In 1922-23 English Evolutionary Ethics, as exemplified in the writings of Darwin, Spencer, Clifford, Stephen, Alexander, and Hobhouse, and as criticized by Green, Sorley, Huxley, Pringle-Pattison, and Rashdall, will be the subject of the seminary. Special attention is given to the problem of determining the nature and limitations of the genetic method as applied in ethical research.

In 1924-25 the subject will be the philosophy of Rousseau. In the first semester the political theory is studied, and in the second the theories of Education, Art, Morals and Religion.

Dr. Grace de Laguna conducts in alternate years the following graduate seminary:

Seminary in Logic and Metaphysics.

Two hours a week throughout the year.

In 1923-24 Contemporary Realism as represented by Moore, Russell, Alexander, Perry, McGilvary, and Fullerton will be the subject of the seminary.

In 1925-26 Inductive and Genetic logic will be the subject of the seminary. The theories of Sigwart, Mill, Whewell, Bradley, Bosanquet, and Dewey are the basis of investigation.

Dr. Theodore de Laguna* conducts in alternate years the following graduate seminary:

Seminary in the History of Philosophy.

Two hours a week throughout the year.

In 1921-22 the subject of the seminary is English Empiricism. Special attention is paid to its connection with Associationism and to the development of the theory of scientific method. This seminary is conducted by Dr. Sabin in 1921-22.

In 1923-24 the philosophy of Plato will be discussed in the seminary. Special attention will be paid to the earlier dialogues, to the development of the theory of ideas and the relation of this theory to the teachings and method of Socrates.

Dr. Theodore de Laguna* conducts in each year the following graduate seminary:

Seminary in Social and Political Philosophy.

Two hours a week during the second semester.

The topics chosen for discussion will vary from year to year. Prominent among them will be: the general nature of law; sovereignty and allegiance; the conception of personal liberty; property; punishment; marriage and the family; moral education.

This seminary may be elected separately, or may be combined with the seminary in Social Psychology, given two hours a week during the first semester, as a seminary for students in the Department of Social Economy and Social Research.

Dr. Theodore de Laguna,* Dr. Grace de Laguna,* and Dr. Sabin conduct in each year the philosophical journal club.

Philosophical Journal Club.

Two hours once a fortnight throughout the year.

The advanced students and the instructors meet to report on and discuss recent reviews and philosophical articles.

The following advanced undergraduate courses may be attended by graduate students:

* See footnote, page 102.

Dr. Grace de Laguna* offers in each year the following minor course:

History of Philosophy.

Five hours a week during the second semester.

Ancient philosophy is very briefly treated. The greater part of the course is devoted to the discussion of selections from the principal writings of Bacon, Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, and Hume.

Dr. Theodore de Laguna* offers in each year the following major course:

Recent Philosophical Tendencies.

Five hours a week during the second semester.

This course includes a discussion of such theories as pragmatism, idealism, neo-realism, etc.

Dr. Grace de Laguna* offers in each year the following major course:

From Kant to Spencer.

Five hours a week during the first semester.

The course is principally occupied with the development of the post-Kantian idealism, and with the naturalistic systems of Comte, J. S. Mill, and Spencer.

Dr. Theodore de Laguna* offers in each year the following minor course:

Elementary Ethics.

Five hours a week during the first semester.

The course begins with a survey of the development of moral standards in the course of human progress from primitive to modern conditions. This is followed by a critical study of the theory of moral values, with especial reference to the phenomena of moral evolution. The concluding weeks are devoted to an introduction to the more general problems of social philosophy in their bearing upon the ideals of English and American liberalism.

Psychology.

The instruction in this department is under the direction of Dr. James H. Leuba,† Professor of Psychology, Dr. Clarence Errol Ferree, Professor of Experimental Psychology and Director of the Psychological Laboratory, Dr. Gertrude Rand, Associate in Experimental and Applied Psychology, and Dr. Ethel Ernestine Sabin, Associate in Philosophy, Dr. Will Sentman Taylor, Lecturer in Psychology, Mrs. Thelma Williams Kleinau, Assistant Demonstrator in Experimental Psychology, and Miss Margaret Wiesman, Assistant Demonstrator in Applied Psychology.

* See footnote, page 102.

† Granted sabbatical leave of absence for the year 1921-22. The courses announced by Professor Leuba are given by Dr. Will Sentman Taylor.

GRADUATE COURSES.

Twelve hours of graduate lectures and seminary work are offered in each year in addition to the direction of private reading and original research. Ten hours a week of advanced undergraduate courses are also open to graduate students. The laboratories of experimental psychology are open for research work. Students may offer either Social Psychology or Experimental and Systematic Psychology as a major subject for the degree of Doctor of Philosophy. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

Dr. Leuba* conducts in each year the following graduate seminaries:

Psychological Seminary.

Two hours a week throughout the year.

As the foundation of the work of the seminary one or two of the following subjects will be chosen each year: the psychology of mental and moral deficiencies with reference to the social problems they present, including case studies and research work in problems of delinquency; instinct, feeling and emotion; the psychology of religion and of ethics; social psychology; abnormal psychology (mental disorders, the Freudian psychology, etc.).

Seminary in Social Psychology.

Two hours a week during the first semester.

In 1921-22 and again in 1923-24 abnormal psychology, chiefly mental and moral deficiency, and its social implications: or temperament and character and their instinctive and emotional foundation will be studied.

In 1922-23 and again in 1924-25 the principles of social psychology and their applications to social problems are the subject of the seminary.

This seminary together with the seminary in Social Philosophy, given in the second semester, may be counted as a seminary by students in the Department of Social Economy and Social Research.

Dr. Ferree conducts in each year the following graduate seminary:

Seminary in Experimental and Systematic Psychology.

Three hours a week throughout the year.

This seminary is intended, primarily, to give a systematic presentation of the literature of experimental psychology. Due consideration, however, will be given to all points of systematic importance. The work is grouped about the following topics; sensation, the simpler sense complexes, perception and ideas, feeling and the affective processes, attention, action, and the intellectual processes (memory, association, imagination, etc.), The course covers three years; but the topics chosen and the time devoted to each vary from year to year according to the needs of the students.

Psychological Laboratory Work.

The laboratory work consists of individual practice and research.

Dr. Ferree and Dr. Rand conduct in each year the following seminary:

Seminary in Research Methods and Problems.

Three hours a week throughout the year.

* See footnote, page 104.

The object of this seminary is to give training in research. In addition to the work in the laboratory supplementary reading, reports and discussions are required. In special cases the course may be elected for a greater number of hours.

Dr. Rand conducts in each year the following seminars:

Seminary in Applied Psychology. *Two hours a week throughout the year.*

Laboratory Work. *Four hours a week throughout the year.*

This course combines seminary, laboratory drill and research features, and covers the psychological aspects of mental testing with special application to problems of vocational guidance and to the testing of normal adults and adult and juvenile delinquents and defectives.

In the seminary work, the requirements of mental tests and their standardization and statistical treatment are considered. The laboratory drill work consists of training in the application of general intelligence and diagnostic tests to normal children and adults. This furnishes a standard of the normal reactions to the tests as well as practice in giving the tests. Later the work is with delinquents and defectives. The research work will be done in connection with Vocational Guidance Bureaus. Two problems will be considered here: (a) the devising and standardizing of specific tests for diagnosing ability for different vocations; and (b) the determination of the average level of intelligence needed to meet the demands of different vocations. The course is open only to graduate students who have had training in experimental psychology.

Seminary in Special Laboratory Problems in Applied Psychology.

Four hours a week throughout the year.

This seminary is offered to students who have attended the seminary in Applied Psychology and wish to pursue more advanced work.

Dr. Leuba,* Dr. Ferree and Dr. Rand together conduct in each year the psychological journal club.

Psychological Journal Club. *One hour a week throughout the year.*

The advanced students meet with the instructors once a week to hear or read reports on the literature of the subject and on the work done in the laboratory.

The following advanced undergraduate courses may be attended by graduate students:

Dr. Leuba* offers in each year the following major and minor courses:

Social Psychology: The Psychology of Group Life and of the Main Social Institutions.

Five hours a week during the first semester.

The Psychology of Instinct and Emotion, and Animal Behaviour.

Five hours a week during the second semester.

Although the course in animal psychology does not necessitate a special knowledge of biology, yet it appeals to students of that science since it deals with animal behaviour. Time is spent on an analysis of the methods by which animals learn. This part of the course is of special interest to students of education because of the light thrown upon the problems of mental acquisition in man.

* See footnote, page 104.

Dr. Ferree and Dr. Rand offer in each year the following minor course:

Experimental Psychology.

Five hours a week during the first semester.

Laboratory Work.

Four hours a week during the first semester.

The lectures constitute an abbreviated course in systematic psychology in which the historical, critical, and theoretical features of the subjects covered are discussed and the experimental features demonstrated. Especial stress is laid on the comparative study of methods. The laboratory work consists of individual practice.

Dr. Ferree offers in each year the following elective course:

Advanced Experimental Psychology.

Two hours a week throughout the year.

This course consists of five hours laboratory work a week, the students being assigned problems to investigate.

Dr. Rand offers in each year the following major course:

Applied Psychology.

Five hours a week during the second semester.

Laboratory Work.

Four hours a week throughout the second semester.

The specific applications of psychology form the subject matter of this course. An important feature is the application to the work of the clinic. Demonstrations are made of mental equipment and individual practice is given in mental testing. The applications of psychology to law, medicine, vocational guidance, advertising, etc., are briefly considered.

Education.

This Department is organized in part from the Phebe Anna Thorne Endowment and is connected with the Phebe Anna Thorne Model School.

The instruction in Education is under the direction of Dr. Matilde Castro,* Professor of Education and Director of the Phebe Anna Thorne Model School, Dr. Ada Hart Arlitt, Associate in Educational Psychology, and Miss Harriet Estabrooks O'Shea, Lecturer in Education.

The work of the Graduate Department of Education is intended for graduate students only. No undergraduate students are permitted to take any graduate work in education although graduate students may if they so desire elect undergraduate courses in education and psychology and other subjects. The courses are planned for graduate students who wish to study education for one, two, and three years on the principle that about one-half of the student's time will be given to purely educational courses and the remaining half to

* Granted sabbatical leave of absence for the year 1921-22. The courses offered by Professor Castro are given by Miss Harriet Estabrooks O'Shea.

courses in the subjects in which she is preparing herself to teach. The degree of Master of Arts in Education is open to graduates of Bryn Mawr College and of other colleges of high standing under the general conditions prescribed for the degree of Master of Arts. The degree of Doctor of Philosophy in Education is open to graduates of all colleges of high standing under the general conditions prescribed for the degree of Doctor of Philosophy.

The Phebe Anna Thorne School.

The Phebe Anna Thorne School opened in the autumn of 1913 under the direction of the Bryn Mawr College Graduate Department of Education. It is maintained by an endowment of one hundred and fifty thousand dollars given by the executors of the estate of the late Phebe Anna Thorne to perpetuate her deep interest in school education and her desire to further research in the best methods of teaching school subjects. The Phebe Anna Thorne School is an integral part of the Graduate Department of Education and affords its students an opportunity to follow the work of the expert teachers of the model school and discuss in seminars conducted by the professors of education the various problems of teaching and administration as they arise from day to day. Pupils are admitted to the primary department at six years of age and to the elementary course at nine or ten years of age and will be fitted to enter Bryn Mawr and other colleges on the completion of a seven or eight years' school course based on the soundest available theory and practice of teaching to be found in this country or abroad. It is believed that the opportunity of studying the newest approved methods of secondary teaching will enable teachers who have studied in the Graduate Department of Education to teach more efficiently and to command materially higher salaries.

GRADUATE COURSES.

In addition to six seminars in education, there are offered in each year observation classes in the Phebe Anna Thorne School. The Department of Education also conducts an Educational Clinic in which examinations are made and advice given in regard to cases of retardation in special school subjects, general retardation or any other maladjust-

ment to school environment. Students electing education as their major subject for the degree of Doctor of Philosophy may elect educational psychology, educational methodology, economics, social economy, social psychology, or experimental and systematic psychology, as the associated minor. The list of approved independent minors will be found in the Regulations of the Academic Council.

Dr. Castro* conducts in each year the following graduate seminaries:

Seminary in Educational Methods and Measurements.

Two hours a week throughout the year.

The seminary takes up the principles of educational methods and teaching technique. The latter part of the work deals with the theory and practice of educational measurements. The special subjects considered vary from year to year.

Seminary in Social Education.

Two hours a week during the first semester.

Not offered in 1921-22.

The essentials of educational theory and practice for social workers are studied in this seminary. The subjects dealt with serve as an introduction to the educational principles involved in the intelligent direction of such activities as community centres, settlement classes, clubs, etc. Among the subjects studied is the characteristic mental and physical development of childhood, adolescence, youth, and maturity. This study is used as a basis for the selection of the educational materials and methods appropriate to the needs and capacities of different groups of varying ages and differing educational opportunities.

Dr. Castro* and Dr. Arlitt conduct in each year the following graduate seminaries:

Seminary in Advanced Experimental Educational Psychology.

Two hours a week throughout the year.

Laboratory Work.

Four hours a week throughout the year.

The seminary considers the main categories of educational psychology from a theoretical and experimental point of view, and studies especially the psychology of school and high school subjects. If the student's training in psychology has been inadequate she is required to take the seminary in Educational Methods and Measurements or the requisite undergraduate work in education.

Seminary in Research Problems in Educational Psychology.

Two hours a week throughout the year.

This seminary is open only to candidates for the degree of Doctor of Philosophy.

Advanced History of Education.

Two hours a week during the first semester.

Philosophy of Education.

Two hours a week during the second semester.

These two courses taken together are equivalent to one seminary and are given in the first semester by Dr. Arlitt and in the second semester by Dr. Castro. Students electing this seminary must have previously taken two seminaries in Education.

* See footnote, page 107.

Dr. Arlitt conducts in each year the following graduate seminary:

Seminary in Intelligence Tests.

Two hours a week throughout the year.

Laboratory Work in Intelligence Tests. *Four hours a week throughout the year.*

The work of the seminary is devoted to a critical survey of the field of mental tests. The laboratory work includes training in the use of tests followed by the practical application of them in schools.

Dr. Castro* and Dr. Arlitt together conduct the journal club.

Journal Club in Education.

Two hours once a fortnight throughout the year.

The advanced students meet with the instructors once a fortnight to report on and discuss recent reviews and articles, and the results of special investigations are presented for comment and criticism.

FREE ELECTIVE COURSES.

Dr. Castro* offers in each year the following undergraduate courses, open to graduate students:

Education.

Two hours a week throughout the year.

The course interprets modern educational problems from the standpoint of their social setting; develops the psychological principles underlying the technique of teaching and demonstrates their application; and discusses the treatment of children individually and in groups in school and extra-school activities.

It is conducted as a general survey course covering the subject-matter indicated, or various topics are stressed and studied more intensively according as the interests of the class vary from teaching to social work or to a more general interest in educational problems.

The Psychology of Childhood.

Three hours a week throughout the year.

The course traces the mental, moral, and physical development of children from infancy through adolescence. A comparative study is made of the psychology of deficient, normal, and gifted children, and attention is given to their educational treatment.

Dr. Arlitt offers in each year the following undergraduate courses, open to graduate students:

Experimental Educational Psychology.

Three hours a week throughout the year.

Laboratory Work.

Two hours a week throughout the year.

In the first semester a study is made of sensori-motor learning, perceptual learning, and learning of the problem-solving type. Particular emphasis is laid on the conditions and methods of efficient study and on the training of memory.

In the second semester the course takes up the study of school subjects from the point of view of laboratory experimentation and a survey of the field of group and individual tests and educational scales and measurements.

* See footnote, page 107.

History of Education.

Two hours a week throughout the year.

The course considers the great educational movements in the light of their historical development. Emphasis is laid on the extent to which these movements influenced and were influenced by the social life and customs of the periods in which they originated.

Classical Archæology.

The instruction in this department is under the direction of Dr. Rhys Carpenter, Professor of Classical Archæology and Dr. Mary Hamilton Swindler, Associate in Latin and Archæology.

Two archæological seminaries of two hours a week each and a graduate course amounting to one hour a week throughout the year are offered to graduate students who have done elementary archæological work, and also a journal club meeting one and a half hours a fortnight. In addition individual students will be directed in special work by means of private conferences.

Undergraduate courses of three hours a week and two hours a week are offered, affording an introduction to the various branches of classical archæology. The undergraduate courses are fully illustrated with lantern-slides, and photographs are available for review and comparison. In connection with graduate courses the students have access to the collections belonging to the department containing replicas of Greek and Roman coins, facsimiles of gems and seals, and a collection of original vase fragments, many of which are by known masters.

GRADUATE COURSES.

Two seminaries in archæology, a graduate course, and a journal club are offered to graduate students in addition to the undergraduate courses which are open also to graduate students. A good reading knowledge of both French and German is indispensable, and familiarity with both Greek and Latin, though not required, is of the utmost value for graduate work in archæology.

Students electing classical archæology as a major subject for the degree of Doctor of Philosophy must have taken the major undergraduate course in Greek and the minor undergraduate course in Latin or courses equivalent to these. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Carpenter conducts in each year the following graduate seminary:

Archæological Seminary.

*Two hours a week throughout the year.**(Given in each year.)*

This seminary is open only to graduate students who have had some previous training in classical archæology. The order of the subjects may be changed in accordance with the needs of the students.

In 1921-22 Greek minor arts (coins, gems, terra-cotta) are studied.

In 1922-23 Greek Architecture will be studied in the first semester, and Roman architecture in the second semester.

In 1923-24 fifth century Greek sculpture will be the subject of the seminary.

Dr. Carpenter offers in each year the following graduate course:

Greek Epigraphy.

One hour a week throughout the year.

In the first semester the origin of the Greek alphabet and the epichoric forms are studied. Roehl's *Imagines* and Part I of Robert's *Introduction to Greek Epigraphy* are used as textbooks. In the second semester a variety of inscriptions of artistic and topographic interest are read. The emphasis is archæological rather than linguistic or politico-historical.

Dr. Swindler offers in each year the following graduate seminary:

Archæological Seminary.

Two hours a week throughout the year

In 1921-22 the subject of the seminary during the first semester is Aegean Archæology with emphasis on the recent discoveries in Crete. During the second semester the subject is Ancient Painting, including a detailed survey of Cretan frescoes, painted plaques, stelæ, and sarcophagi, Greek vases of the Polygnotan era, paintings found in Etruscan tombs, Pompeian wall decoration, and the mummy portraits from the Fayum.

In 1922-23 Greek vases will be the subject of the seminary with special reference to the vase masters of the fifth century.

In 1923-24 Etruscan and Roman Archæology will be the subject of the seminary. A survey of Etruscan sites and monuments is followed by a study of the monuments of Rome from the earliest times down to the Age of Constantine.

Dr. Carpenter and Dr. Swindler together conduct in each year the archæological journal club.

Archæological Journal Club. *One and a half hours a fortnight throughout the year.*

The graduate students and the instructors meet for the presentation and discussion of topics of current archæological literature.

The following undergraduate courses may be attended by graduate students:

Dr. Carpenter offers in each year the following minor and major courses open to graduate students:

Greek Sculpture.

Three hours a week throughout the year.

A critical study of the rise, perfection, and ultimate developments of sculpture in Greece. The course is intended as a general introduction to the principles and appreciation of sculpture.

Ancient Architecture.

Three hours a week during the first semester

The first twelve lectures deal with Egyptian, Babylonian, Assyrian, Persian and Aegean building. The remainder of the semester is devoted to a detailed study of the principles and practice of Greek architecture until late Hellenistic times. Emphasis is laid on architectural evolution and its connection with the civilization of the period.

Ancient Architecture (continued). *Two hours a week during the second semester.*

The architecture of Rome and the Roman Empire down to late Imperial times is studied in the second semester. Students entering this course in the second semester are required to prepare themselves by reading Warren's *Foundations of Classic Architecture*, chapter v., and Fowler and Wheeler's *Greek Archæology*, chapter ii.

Egypt and Crete. *One hour a week during the second semester.*

A general study of the artistic and material aspects of the ancient Egyptian and the Cretan and Mycenaean civilizations. This course may be combined with Ancient Architecture, Ancient Rome, or Greek Minor Arts.

Art and Life in Hellenistic Towns. *Two hours a week during the first semester.*

A reconstruction, from existing remains, of town and city life in the period between the death of Alexander the Great and the Roman domination.

Greek Minor Arts. *Two hours a week during the second semester.*

In addition to the archæological study of ancient Greek coins, gems, jewelry, silver-smithing, and terra-cotta, this course serves to give an understanding of the general æsthetic principles of art by an analysis of the morphological evolution and fundamental assumptions of Greek art. The course includes a brief treatment of the influence of Hellenic art on the art of other races.

Dr. Swindler offers in each year the following minor and major courses:

Ancient Painting and Vases. *Two hours a week during the first semester.*

The course traces the development of ancient painting. The material studied includes Egyptian and Cretan frescoes, Greek vases, Pompeian wall paintings, and the paintings from Etruscan sites.

Ancient Rome. *Two hours a week during the second semester.*

The course deals with the art and material civilization of Rome through Republican and Imperial times. It is intended both as an archæological background to Latin studies and as an introduction to Roman art, especially sculpture and painting. The course includes a study of Etruscan art and its influence on early Rome.

Dr Wright offers in each year the following free elective courses, open to graduate students:

Greek Religion and Greek Myths. *Two hours a week during the first semester.*

This course is supplementary to Greek and English literature and to Oriental and Classical Archæology, and treats of the development of Greek religion, the attributes of the Olympian Gods, such as Zeus and Apollo, their ritual, and the influence on literature of Greek myths. This course may be offered as part of the minor course in Classical Archæology.

Literary Geography of Greece and Asia Minor.

Two hours a week during the second semester.

This course traces not only the literary legends of famous sites such as Athens, Thebes, Troy and Constantinople, but also their political history. It may be offered as part of the minor course in Classical Archæology.

History of Art.

The instruction in this department is under the direction of Miss Georgiana Goddard King, Professor of the History of Art, and Mr. George Rowley, Instructor in History of Art.

A seminary of two hours a week and a journal club of one hour a week are offered to graduate students who have done elementary work in history of art. In addition individual students will be directed in special work by means of private conferences.

The undergraduate work is divided into courses of three hours a week and two hours a week on painting, sculpture and architecture.

All the courses are illustrated with lantern slides, and photographs are available for review and comparison.

GRADUATE COURSES.

A seminary in History of Art of two hours a week throughout the year is offered to graduate students who have done elementary work in history of art.

In addition to the graduate seminary announced, other courses will be provided as need for them arises, and individual students will be directed in special work by means of private conferences. History of Art may be offered as a minor for the degree of Doctor of Philosophy. A list of major subjects with which it may be offered will be found in the Regulations of the Academic Council.

Miss King conducts in each year the following graduate seminary:

Seminary in History of Art.

Two hours a week throughout the year.

In 1921-22 the general subject is Mediæval Art in the period that lies between the sixth and the sixteenth centuries, and the work of the year is devoted to the origins of Romanesque.

In 1922-23 the subject will be again selected from the mediæval field, and probably restricted to decorative elements.

In 1923-24 the subject of the seminary will be Spanish Painting up to 1550; and in 1924-25 later Spanish Painting.

Graduate work in modern painting will also be arranged for any student who wishes to combine History of Art with English or French literature. While the order of the seminaries may be altered to suit the needs of individual students, certain canons of art, and certain æsthetic problems will be considered in successive years.

Mr. Rowley conducts in each year the following graduate seminary:

Sieneſe Painting.

Two hours a week throughout the year.

Miss King and Mr. Rowley together conduct in each year the journal club in the history of art.

Journal Club in the History of Art. *Two hours once a fortnight throughout the year.*

The instructors and the graduate students meet for the presentation and discussion of current literature on the History of Art.

POST-MAJOR COURSES.

Miss King offers in 1922-23 and again in 1924-25 the following post-major course, open to graduate students:

Spanish Painting.

Three hours a week throughout the year.

This course is open only to students who have completed the minor and major work in history of art, or an equivalent course. The sources and development of Spanish painting are considered from the early miniature painters down to living painters. Students are expected to learn something about the Spanish character and history and to make short trips to see paintings on exhibition in America.

Miss King offers in 1923-24 and again in 1925-26 the following post-major course open to graduate students:

Renaissance Sculpture.

Three hours a week throughout the year.

The first semester is devoted to the sculpture of the Italian Renaissance, the second chiefly to Northern art, and in especial to figure sculpture in France from the finishing of the Cathedrals to the close of the Renaissance. The great sculptors of Germany and Spain will be studied carefully in conclusion. The course is illustrated with photographs and lantern slides.

Mr. Rowley offers in 1922-23 the following post-graduate course, open to graduate students:

Oriental Art.

Two hours a week throughout the year.

This course will consist of a general historical background and the consideration of special problems, such as the influence of Buddhism upon art and the inter-relation of Chinese and Japanese painting. Emphasis will also be placed on the æsthetic differences between the fine arts in the East and in the West. Completion of the minor, Art of the Far East, is *not* a prerequisite.

Mr. Rowley offers in 1923-24 the following post-major course open to graduate students:

Renaissance and Modern Architecture.

Two hours a week throughout the year.

The following undergraduate courses may be attended by graduate students:

Miss King offers in 1921-22 the following minor and major courses:

Italian Painting of the Renaissance from the Middle of the Thirteenth to the Middle of the Sixteenth Century. *Three hours a week throughout the year.*

In the first semester the Italian Primitives are studied, chiefly in the schools of Florence, Siena, and Umbria; in the second semester the painters of the High Renaissance, with special attention to those of Venice and the north of Italy. The course is illustrated with photographs and lantern slides.

Renaissance Sculpture.

Two hours a week throughout the year.

Modern Painting.

Three hours a week during the second semester.

This course deals with the history of painting since 1800 and comes down to the present year. Students are expected to make trips to Philadelphia and the neighbourhood to study pictures as often as may seem necessary.

Miss King offers in 1922-23 and in each succeeding year the following minor and major courses:

Italian Painting of the Renaissance from the middle of the thirteenth to the middle of the sixteenth century. *Three hours a week throughout the year.*

This course will be given as in 1921-22.

Mediæval Art, Byzantine and Romanesque.

Three hours a week during the first semester.

Byzantine Art in its various aspects will be studied in the early part of the semester and the question of its origin considered. The latter part of the time will be devoted to architecture and the allied arts in Italy, Germany, France and Spain up to the close of the Romanesque period.

Modern Painting.

Two hours a week during the second semester.

This course deals with the history of painting since 1800 and comes down to the present year. Students are expected to make trips to Philadelphia and the neighbourhood to study pictures as often as may seem necessary.

Mr. Rowley offers in 1922-23 and again in 1923-24 the following minor and major courses:

The Art of the Far East.

Two hours a week throughout the year.

A general history of the development of art, especially painting, in China, Japan, and India from the earliest bronzes to modern color prints, with the rise of Buddhism in India and its influence in China and Japan as a connecting thread. Emphasis will be placed upon the great painting of the T'ang and Sung dynasties in China.

Mediæval Art, Gothic

Three hours a week during the second semester.

A continuation of the course in Mediæval Art offered in the first semester. Gothic Art, including glass and miniatures, is traced down into the Renaissance.

Painting in the Seventeenth and Eighteenth Centuries.

Two hours a week during the first semester.

The purpose of this course is to establish the bases of modern painting, tracing the evolution of Northern realism until its culmination in Rembrandt and the Dutch School; the fusion of the Renaissance and Flemish traditions in Rubens; the contributions of the French Academie and Watteau, and lastly Velasquez as the transition to modern impressionism.

Music.

The instruction in this department is given by Mr. Thomas Whitney Surette, Director of the department, and Mr. Horace Alwyne, Associate Professor of Music.

The instruction offered in theoretical music covers thirteen hours of lectures a week exclusive of two graduate courses which will require about two-thirds of the student's time.

The objects of the undergraduate course in music are: to permit students to make music an integral part of a liberal education; to enable such students to feel and understand the music of the great masters, and to realize its significance historically as well as æsthetically. In the class exercises students constantly hear great compositions played so that the analysis made in the class shall be as far as possible based on the emotion or feeling of delight produced by the music. The courses in theoretical music leading from elementary harmony up to original composition are intended for those students who desire to specialize in Music.

GRADUATE COURSES.

The graduate courses may lead under certain fixed conditions to the degree of Master of Arts, but are not permitted to count as any part of the requirements for the degree of Doctor of Philosophy.

Students wishing to specialize in music who meet the preliminary requirements of the Academic Council for the degree of Master of Arts will be allowed to become candidates for the degree of Master of Arts of Bryn Mawr College in Music only if they have offered the equivalent of two seminars in Music together with a seminary in Education or some other seminary, subject in each case to the approval of the Committee on Graduate Courses and of the Director of the Department of Music.

Preliminary requirements for admission to graduate courses in music:

1. A.B. degree from a college of recognized standing.
2. Certain standards of knowledge or facility in instrumental or vocal music will be required of all students. Students offering vocal music to answer the above requirements will be expected to have some facility in piano playing. Students who are deficient in the above requirement will be recommended by the Department of Music to certain qualified teachers outside the college.
3. Courses in the History of Music, Harmony and Counterpoint, in general equivalent to the undergraduate courses given in Bryn Mawr College, must have been taken, or must be taken without credit, as preliminary to graduate work.

Mr. Surette and Mr. Alwyne offer in 1921-22 and in each succeeding year two graduate seminars:

Seminaries in Music.

Two to five hours a week throughout the year.

The theoretical aspects of music, original composition, etc., will be studied in the seminars, and each will occupy about two-thirds of the student's time.

UNDERGRADUATE COURSES.

Mr. Surette and Mr. Alwyne offer in 1921-22 and in each succeeding year the following undergraduate courses open to graduate students:

History and Appreciation of Music. *Three hours a week throughout the year.*

This course consists of the study of the History of Music up to and including Beethoven, and of the masterpieces of music produced during that period. Characteristic works of sixteenth century vocal polyphony are studied, and compositions of the following composers are played in class: Scarlatti, Corelli, Rameau, Couperin, and their contemporaries; Bach, Handel, Haydn, Mozart and Beethoven. The forms included are the folk-song, motet, madrigal, fantasia, toccata, etc., the fugue, suite, rondo, theme and variations, sonata and symphony. All study and analysis is based on the music itself. The instruction is given by means of lectures, required reading, discussion, and by analysis by the students in class.

Mr. Alwyne offers in 1921-22 and in each succeeding year the following undergraduate course open to graduate students:

Elementary Harmony. *Two hours a week throughout the year.*

Preliminary requirements for admission: knowledge of chords, scales and keys, ability to sing from note and to take musical dictation.

This course is the beginning of composition. It offers the student within certain limitations a choice in dealing with materials æsthetically. It does not impose upon the student mere copying of a model, but gives her some intellectual and æsthetic liberty. The student learns to use major and minor triads in their root positions and inversions and the dominant seventh chord. The student learns not only to write these logically but to hear them when writing them. Original melodies are required, these being based on poetic meters.

Mr. Surette and Mr. Alwyne offer in 1922-23 and in each succeeding year the following undergraduate courses:

Advanced History and Appreciation of Music. *Three hours a week throughout the year.*

The preliminary course in History and Appreciation of Music is required for admission.

This course consists of the study of the History of Music from Schubert through Brahms and César Franck and of the musical masterpieces produced during that period. The instruction follows the same plan as in the preceding course.

Advanced Harmony. *Two hours a week throughout the year.*

Preliminary requirements for admission: the course in Elementary Harmony; or the student must satisfy the instructor that she is qualified.

This course is the continuation of the course in Elementary Harmony and carries the student through modern harmonic relations. Original melodies are written and harmonized, many modern compositions are analyzed, and an opportunity is given for freedom of expression.

Counterpoint. *Two hours a week throughout the year.*

Preliminary requirements for admission: the two courses in Harmony; or the student must satisfy the instructor that she is qualified to enter.

This course deals with the various modes of counterpoint to which the courses in Harmony have led in so far as it has been possible to bring about "horizontal" writing in those courses. This course offers full opportunity for the expression of the individual student.

Mr. Alwyne offers in 1922-23 and in each succeeding year the following undergraduate course open to graduate students:

Canon and Fugue.

Two hours a week throughout the year.

Preliminary requirements for admission: the three preceding courses in Harmony and Counterpoint; or the student must satisfy the instructor that she is qualified to enter.

This course deals with the stated contrapuntal forms and requires some originality on the part of the student and some facility in pianoforte playing.

Mathematics.

The instruction in this department is under the direction of Dr. Charlotte Angas Scott, Professor of Mathematics, and Dr. Anna Pell, Associate Professor of Mathematics.

GRADUATE COURSES.

The graduate courses consist of lectures and seminary work supplemented by private reading under the direction of the instructors, the courses being arranged each year with reference to the wishes and degree of preparation of the students concerned. Students who elect mathematics as a major subject for the degree of Doctor of Philosophy are required to elect mathematics also as an associated minor. The list of approved independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Scott conducts in each year the following graduate seminary:

Mathematical Seminary.

Two hours a week throughout the year.

In 1921-22 the principal part of the year's work is devoted to a detailed study of Cremona and Riemann Transformations, including an account of the analyses of singularities. The theory of groups of points on a curve (geometry on a curve) is taken up in this connection.

An additional half-seminary is devoted to a detailed treatment of cubic curves and a more general discussion of quartic curves.

In 1922-23 the subject of the seminary will be Geometry on a Curve and Linear Systems of Curves. Special attention will be paid to the Italian treatment.

In 1923-24 Differential Geometry of Curves and Surfaces will be studied in the seminary. While Eisenhart's book will be taken as a guide it is expected that the work will be connected with that of Darboux.

In 1924-25 Topology of Plane Algebraic Curves will be the subject of the seminary.

Seminary work in special plane curves, algebraic or transcendental, will be offered if needed.

Dr. Pell conducts in each year the following graduate seminary:

Mathematical Seminary.

Two hours a week throughout the year.

In 1921-22 the subject of the seminary for the first semester is the Calculus of Variations. Besides the general theory, isoperimetric problems and discontinuous solutions are considered. The subject of the seminary for the second semester is Integral Equations. The Volterra, Fredholm, Hilbert and Schmidt theories will be studied.

A seminary in the Theory of Functions of a Complex Variable is also given to meet the needs of certain students.

In 1922-23 Theory of Functions of Infinitely Many Variables will be the subject of the seminary. The work of Hilbert, Schmidt, Hellinger, Toeplitz and others will be studied.

In 1923-24 a seminary in Theory of Functions of a Complex Variable will be offered.

Dr. Scott and Dr. Pell together conduct the journal club.

Mathematical Journal Club.

One hour a fortnight throughout the year.

The journal club holds fortnightly meetings at which reports on special topics or memoirs are presented by the instructors and the graduate students.

POST-MAJOR COURSES.

The post-major courses in mathematics are designed to bridge over the interval between the ordinary undergraduate studies and advanced work. They deal, therefore, with the subjects of the major courses carried to higher developments and treated by higher methods. As the order of mathematical studies differs in different colleges, graduate students frequently find it advisable to devote a part of their time to these courses. Regular written work is expected from all mathematical students, and a reading knowledge of French and German is presupposed.

The post-major courses in any one year amount to five hours a week. The courses given are the following with occasional modifications:

Dr. Scott offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

Lectures on Modern Pure Geometry.

Two hours a week throughout the year.

Dr. Scott offers in 1922-23 the following post-major course, open to graduate students:

Special Topics in Geometry.

Two hours a week throughout the year.

Lectures on special topics in geometry, such as homogeneous coordinates, circular coordinates, families of curves, certain transcendental curves, geometrical transformations, etc.

Dr. Scott offers in 1924-25 the following post-major course, open to graduate students:

Modern Analytical Geometry.

Two hours a week throughout the year.

Lectures introductory to modern analytical geometry, in connection with Salmon's *Conic Sections* and Scott's *Modern Analytical Geometry*.

Dr. Pell offers in 1921-22 the following post-major course, open to graduate students:

General Course in Analysis.

Three hours a week throughout the year.

This course deals with the development of subjects such as determinants, infinite series, Fourier series, definite integrals, differential equations, etc.

Dr. Pell offers in 1922-23 the following post-major courses, open to graduate students:

Theory of Functions of a Complex Variable.

Two hours a week throughout the year.

Calculus of Finite Differences and Theory of Probabilities.

One hour a week throughout the year.

Dr. Pell offers in 1923-24 the following post-major courses, open to graduate students:

Higher Algebra.

Two hours a week throughout the year.

Theory of Numbers.

One hour a week throughout the year.

FREE ELECTIVE COURSES.

Dr. Scott offers when the time of department permits one of the following free elective courses open to graduate students:

Graphic Mathematics.

One hour a week throughout the year.

The course deals with statistical work, probability, and theory of errors. It is recommended to students of economics as well as to students of physics. No knowledge of mathematics beyond the requirement for matriculation is presupposed.

Fundamental Theorems of Algebra and Geometry.

One hour a week throughout the year.

Certain standard problems of historical interest are considered in order to elucidate some of the fundamental principles of mathematics. Either semester may be taken separately. No knowledge of mathematics beyond the requirement for matriculation is presupposed. It is hoped that the work will prove useful to those intending to teach elementary mathematics.

SCIENCE.

Physics, Chemistry, Geology, Biology.

Professors and instructors: Dr. Florence Bascom,* Dr. William B. Huff, Dr. David Hilt Tennent,* Dr. James Barnes, Dr. Roger Frederic Brunel, Dr. James Llewellyn Crenshaw, Dr. Anna Baker Yates, Dr. Franz Schrader, Dr. Malcolm Havens Bissell, Miss Sue Avis Blake, Miss Mary L. Morse, and Miss Helen Ingraham.

In January, 1893, the Trustees opened Dalton Hall, a large building, containing ample laboratories, lecture-rooms, research-

* Granted sabbatical leave of absence for the year 1922-23. The courses offered will be given by a substitute whose appointment will be announced later.

rooms, special libraries, and professors' rooms for the work of the scientific departments. The chemical, geological, biological, and physical laboratories and the laboratory for experimental psychology are open for students from nine to six daily.

The chemical department includes a lecture-room, a large laboratory for the first-year students, and several smaller ones for advanced and special work, a special room for physical chemistry, preparation and balance rooms, and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purpose of instruction and research, and is increasing from year to year. The chemical library contains, besides necessary treatises and reference books, complete sets of the most important chemical journals.

The geological department is equipped with large collections of minerals, rocks, and fossils, a carefully selected library, and laboratories furnished with maps, models, charts, lantern slides, petrologic microscopes, goniometers, and other apparatus necessary for work in undergraduate and graduate courses.

The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with apparatus for the study of experimental physiology.

The physical laboratories are carefully furnished with the apparatus necessary for thorough work.

Graduate work in the natural sciences is highly specialized, and consists of laboratory work, private reading, and special investigations pursued by the student under the guidance of the instructors.

Physics.

The instruction in this department is under the direction of Dr. William B. Huff, Professor of Physics, Dr. James Barnes, Professor of Physics, and Miss Sue Avis Blake, Instructor in Physics.

GRADUATE COURSES.

The graduate seminars consist of lectures, laboratory work, and original research under the direction of the instructors, the lecture courses varying from year to year so that they may be pursued by students through consecutive years. A good working library containing the current and bound numbers of all the important physical journals is kept in the laboratory. Students electing physics as their major subject for the degree of Doctor

of Philosophy may elect it also as the associated minor, provided either mathematics or applied mathematics is taken as the independent minor; or mathematics or applied mathematics may be taken as the associated minor. A list of approved independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Huff conducts in alternate years the following graduate seminary:

In 1922-23 Radio-activity and Discharge of Electricity through gases is the subject of the seminary in the first semester and Electron Theory in the second semester. The earlier lectures treat of the effect of fields on the path of a moving charged particle. A discussion of typical experimental methods of measuring velocity and the ratio of charge to the mass follows. After a study of the phenomena of electrical discharge and of radio-activity a brief account of theories is given. In the Electron Theory the mathematical development of the subject is first dealt with and this is followed by experimental tests of theory.

In 1924-25 Mathematical Theory of Electricity and Magnetism is the subject discussed. The lectures are based on Maxwell's standard work, and include a general account of the later development of the theory.

Dr. Barnes conducts in alternate years the following graduate seminary:

In 1921-22 Thermo-dynamics and Radiation are the subjects of the seminary. The modern developments of thermo-dynamics and radiation including X-rays and photo-electricity are considered. Attention is paid to the application of the laws of thermo-dynamics in physical chemistry.

In 1923-24 the seminary deals with a general mathematical discussion of physical optics. Students are expected to give detailed reports on the methods and results of investigations which illustrate the theory. When it seems desirable two and a half hours of experimental work will be substituted for one hour of the seminary.

Dr. Huff and Dr. Barnes together conduct the journal club, and the laboratory work.

Physical Journal Club.

One hour a week throughout the year.

The advanced students meet with the instructors once a week to hear or read papers on assigned topics in physics.

Laboratory work.

The laboratory work is arranged for the purpose of familiarizing the student with the methods of research; the student begins by repeating methods and investigations of well-known experimenters, with any modifications that may be suggested, passing on to points of investigation left untouched by previous experimenters, and finally to the study of new methods and the prosecution of original research. Students taking physics as their chief subject for the degree of Doctor of Philosophy are expected to spend all the time possible in the laboratory. In the basement there is a constant-temperature vault designed for accurate comparison of lengths, etc., and the laboratory is provided with special rooms for magnetic, optical, and electrical work. A well-equipped shop and trained mechanics make it possible to have special forms of apparatus constructed which are needed in research work.

POST-MAJOR COURSES.

Dr. Huff offers in 1921-22 the following post-major course, open to graduate students:

Electricity and Magnetism.

Three hours a week throughout the year.

The lectures of this course treat typical mathematical and experimental problems chosen from the various parts of the entire subject. A large number of problems on potential and attraction are assigned.

Dr. Huff offers in 1923-24 the following post-major courses, open to graduate students:

Properties of Matter.

Three hours a week during the first semester.

The lectures cover the general subject of the properties of matter studied from the point of view of the Molecular Theory. The different theories of matter are discussed and an account of recent investigations concerning the relations of matter and electricity is given. Poynting and Thomson's *Properties of Matter* is read in connection with the course.

Theory of Sound.

Three hours a week during the second semester.

The lectures form an introduction to the theory of modes of vibration of pipes, strings, and rods. The theory of music and of musical instruments is then studied. Poynting and Thomson's *Sound* is used during the earlier part of the course, and frequent references are made to Helmholtz and Rayleigh.

Dr. Barnes offers in 1922-23 the following post-major courses, open to graduate students:

Spectroscopy.

Three hours a week during the first semester.

The course begins with a complete discussion of the apparatus used in this subject; the results of past and present investigations are then considered, and problems for investigation are pointed out. The many important applications of spectroscopy to astronomy and to atomic structure are not neglected. The standard book of reference is Kayser's *Handbuch der Spectroscopie*. Detailed reports of laboratory investigations are required.

Astrophysics.

Three hours a week during the second semester.

This course consists of lectures on the application of physical principles and methods to the study of the composition, structure, and motions of the heavenly bodies. Selected chapters in Moulton's *Celestial Mechanics* and many papers from the *Astrophysical Journal* will be read and discussed.

Dr. Barnes offers in 1924-25 the following post-major course, open to graduate students:

General Optics.

Three hours a week throughout the year.

These lectures give a general discussion of the theories advanced to explain many phenomena in light. Students are required to have a good knowledge of elementary optics and to be sufficiently familiar with optical apparatus to undertake a detailed study of some special problem.

FREE ELECTIVE COURSE.

Dr. Huff offers in each year the following free elective course, open to graduate students:

Physical Basis of Music.*One hour a week throughout the year.*

In the lectures of this course it is planned to present some of the physical principles illustrated in the construction of musical instruments and underlying the general theory of music. Private reading will be assigned.

Chemistry.

The instruction in this department is under the direction of Dr. Roger Frederic Brunel, Professor of Chemistry, Dr. James Llewellyn Crenshaw, Associate Professor of Physical Chemistry, and Miss Mary L. Morse, Demonstrator in Chemistry.

GRADUATE COURSES.

The advanced courses in chemistry consist of lectures upon inorganic, organic, and physical chemistry, seminars, reports upon current chemical literature, and laboratory work. A reading knowledge of French and German is indispensable.

The lecture courses are varied from year to year to meet the requirements of students and to form a consecutive course for those who wish to make chemistry the major subject in the examination for the degree of Doctor of Philosophy. Such students may specialize either in organic chemistry under the direction of Dr. Brunel, or in physical or inorganic chemistry under the direction of Dr. Crenshaw.

No undergraduates are admitted to graduate courses.

Dr. Brunel conducts in each year the following graduate seminary:

Chemical Seminary, Organic Chemistry. *One hour a week throughout the year.*

This seminary is intended primarily for students who are carrying on research in organic chemistry, and consists of reports on assigned topics which are usually related to the research in which the student is engaged.

Dr. Crenshaw conducts in each year the following graduate seminary:

Chemical Seminary, Inorganic Chemistry.

One hour a week throughout the year.

The work of the seminary consists of lectures, required reading, and reports on various topics. The needs of the individual students are considered in selecting the subjects for discussion.

Dr. Brunel offers in each year the following graduate course:

Advanced Organic Chemistry.

One hour a week throughout the year.

Lectures, reading, and occasional reports cover the historical developments and present status of subjects of current interest. In the year 1922-23 a considerable part of the time will be spent upon the carbohydrates.

Students counting this course as the equivalent of a seminary are required to do enough laboratory work to make the work of the course occupy fourteen hours a week. The nature of this work depends so largely on the past training of the student that no definite statement can be made regarding it. A sufficiently advanced student may be assigned a problem to investigate.

Dr. Crenshaw offers in each year the following graduate course:

Physical Chemistry.

Two hours a week throughout the year.

In the lectures no attempt is made to give a general survey of the subject but certain selected portions of the science are treated in detail and the student is made familiar with problems of current interest. Students counting this course as the equivalent of a seminary will be required to do enough laboratory work to make the work of the course occupy fourteen hours a week. The laboratory work will consist of advanced physico-chemical measurements.

Dr. Brunel and Dr. Crenshaw together conduct the journal club.

Chemical Journal Club.

One hour a week throughout the year.

The advanced students, with the instructors, meet to hear reports and discussions on recent scientific articles.

POST-MAJOR COURSES.

Dr. Brunel offers in each year the following post-major course, open to graduate students:

Organic Chemistry.

Two hours a week throughout the year.

The course consists of lectures, assigned reading with occasional reports, and laboratory. It is intended to broaden the student's acquaintance with the subject and to serve as an introduction to the study of present day chemical problems.

At least four hours of laboratory work a week will be required, three hours' credit being given for the course. The laboratory work will consist of the preparation of compounds, organic analysis, and study of the methods for determining the constitution of organic compounds.

Dr. Crenshaw offers in each year the following post-major course, open to graduate students:

Physical Chemistry.

Two hours a week throughout the year.

The aim of the lectures is to extend the student's knowledge of physical chemistry and to lay a foundation for independent work on this subject. The lectures are supplemented by assigned reading and reports intended to give a general outline of the subject. The solution of a large number of problems is required.

The laboratory work amounting to four and a half hours a week is designed to prepare the students for physico-chemical research.

Dr. Crenshaw offers in each year the following post-major course, open to graduate students:

Inorganic Chemistry.

One hour a week throughout the year.

Selected topics in inorganic chemistry are discussed in detail and parallel reading is required. In the laboratory work of six hours a week advanced quantitative analyses are included.

Geology.

The instruction in this department is under the direction of Dr. Florence Bascom,* Professor of Geology, and Dr. Malcolm Havens Bissell, Instructor in Geology.

The instruction offered in geology includes, in addition to the minor and major courses, three free elective courses of two hours and one hour a week, four post-major courses of two and three hours a week open only to graduates and to undergraduates that have completed the major course in geology, and two graduate seminars of three hours a week.

Post-major courses in petrography or mineralogy, economic geology, stratigraphy, and paleontology are offered in each year, and are designed to train the student in exact methods for the determination of rock and mineral species, in the genesis of ores, and in the principles of stratigraphy and paleontology. They are an essential preliminary to research work in the science.

Excellent illustrative material for the graduate and undergraduate courses is furnished by the geological and paleontological collections of the college, including the Theodore D. Rand rock and mineral collection, which alone contains over 20,000 specimens, by the private collections of the instructors, and by material lent by the United States Geological Survey; the department is also fortunate in its proximity to the museum of the Academy of Natural Sciences of Philadelphia; within easy reach of the college there are excellent collecting fields for fossil, mineral, and rock specimens.

GRADUATE COURSES.

The seminary in petrology and crystallography should be preceded by the major and post-major courses or their equivalents and is intended primarily for graduate students wishing to make inorganic geology a major subject for the degree of Doctor of Philosophy. The graduate seminary in crystallography is also intended to meet the needs of graduate students in chemistry who wish to make crystallography a minor subject for the degree of Doctor of Philosophy. The graduate seminary in physiography is designed primarily for graduate students wishing to make physiography a major subject for the degree of Doctor of Philosophy.

* Granted sabbatical leave of absence for the year 1922-23. The courses offered by Professor Bascom will be given by a substitute whose appointment will be announced later.

Further graduate seminars in petrology and physiography will be arranged to suit the requirements of candidates for the degree of Doctor of Philosophy and research problems will be assigned.

Students may specialize either in petrology and crystallography, under the direction of Dr. Bascom, or in stratigraphic geology and physiography, under the direction of Dr. Bissell, but students who make inorganic geology the major subject of examination must take either physiographic geology, inorganic chemistry, or crystallography as the associated minor and students who elect physiographic geology as the major subject must take either inorganic geology or biology as the associated minor. A list of approved independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to the graduate courses.

Dr. Bascom* conducts in each year one or more of the following graduate seminars:

Petrology, or Crystallography or Metamorphic Geology.

Three hours a week throughout the year.

The seminary is conducted by means of informal discussions, required reading, laboratory work, and formal reports. The selection of subjects in petrology is dependent upon the needs of the individual students and is varied from year to year. In crystallography direction is given in crystal measurement with the two-circle goniometer, in crystal projection, and crystal drawing. When metamorphic geology is the subject of the seminary the products and processes of anamorphism and katamorphism are investigated and classified.

Dr. Bissell conducts in each year the following graduate seminary:

Seminary in Physiography.

Three hours a week throughout the year.

A broad study of the physiographic cycle forms the basis of this course. The general principles governing the development of land forms are applied to various physiographic types, and the evolution of surface features under the control of climate and geologic structure is studied in considerable detail. This is followed by a study of definite regions illustrating the application of physiographic principles to problems of structural, economic and stratigraphical geology. Lectures, outside reading, reports, map work and field excursions are the methods of instruction. Research problems are taken up if time permits.

Dr. Bascom and Dr. Bissell together conduct the journal club.

Geological Journal Club.

Two hours once a fortnight throughout the year.

The graduate students and the instructors meet for the presentation and discussion of recent investigations or recent geological literature.

POST-MAJOR COURSES.

Dr. Bascom offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

Petrography.

Three hours a week throughout the year.

* See footnote, page 127.

During the first semester the lectures deal with the principles of optical crystallography, the optical means of mineral determination, and the petrographic characters of rock-forming minerals. In the second semester the textures, constitution, origin, geographic distribution, and geologic associations of igneous rocks are treated; practice is given in the quantitative system of classification. Special field problems may be given to the students for independent solution.

Dr. Bascom offers in 1922-23* and again in 1924-25 the following post-major course, open to graduate students:

Determinative Mineralogy.

Two hours a week throughout the year.

In this course lectures and laboratory practice deal with the determination of minerals by means of physical tests and by blow-pipe analysis. Special emphasis is placed on crystal form and practice is given in the use of the two-circle contact goniometer.

Dr. Bissell offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

Economic Geology.

Two hours a week throughout the year.

The origin and geological occurrence of the useful minerals are treated in considerable detail, particular attention being given to the metallic ores.

Dr. Bissell offers in 1922-23 and again in 1924-25 the following post-major course, open to graduate students:

Stratigraphy and Paleontology.

Three hours a week throughout the year.

The work of the first semester consists largely of lectures and assigned reading, and is devoted to a thorough study of the principles of sedimentation. This is followed by a consideration of the laws governing the distribution of organisms in time and space.

In the second semester the lectures deal with the evolution of the continents and seas as shown by the record of the sedimentary rocks and their fossils. The successive formations of North America are studied in order, and ancient physiographic conditions deduced as accurately as possible. Particular attention is paid to the evolution of life through the different geological periods and the changes of environment controlling it. In the laboratory the typical fossils of each period are studied, and the student is required to learn the guide fossils of the more important geological horizons.

FREE ELECTIVE COURSES.

Dr. Bascom offers in 1922-23 and again in 1924-25 the following free elective course, open to graduate students:

Cosmogony.

One hour a week throughout the year.

The work of the course is conducted by means of lectures, required reading, and classroom discussion. The lectures treat of the origin of the earth, the growth of the continents and the development of landscape, and are illustrated by lantern slides. Reading is assigned to supplement the lectures and to furnish further material for discussion. The course is intended to give a survey of the more important results reached by geologic research. It will be given only if elected by a sufficient number of students.

Dr. Bissell offers in 1921-22 and again in 1923-24 the following free elective course, open to graduate students:

Natural Resources and Their Conservation.

Two hours a week throughout the year.

The aim of this course is to impart the knowledge concerning natural resources and their economic and political significance which is essential to a proper understanding of present

* See footnote, page 127.

day national and world problems. Some of the topics discussed are: The increasing dependence of man on natural resources; iron and coal as essentials of modern civilization; mechanical power and its sources, past, present and future; food supplies of the present and future; natural resources and international politics. The treatment of the subject will be as broad as possible, and particular attention will be paid to the problems of the United States.

Dr. Bissell offers in 1922-23 and again in 1924-25 the following free elective course, open to graduate students:

Principles of Modern Geography.

Two hours a week throughout the year.

This course is designed particularly to present the point of view of the "new geography." In general it deals with the relation of man and of human activities to physical environment and physiographic facts are studied only in so far as they affect human relationships. Much emphasis is placed on the importance of the geographic factor in the study of the historical, political, social, and economic problems.

Biology.

The instruction in this department is under the direction of Dr. David Hilt Tennent,* Professor of Biology, Dr. Anna Baker Yates, Associate in Physiology and Biochemistry, Dr. Franz Schrader, Associate in Biology, and Miss Helen Ingraham, Demonstrator in Biology.

GRADUATE COURSES.

The advanced courses are varied from year to year, so as to form a consecutive course for students that wish to make biology one of the chief subjects of the examination for the degree of Doctor of Philosophy. Such students may specialize either in morphology under the guidance of Dr. Tennent and Dr. Schrader, or in physiology or in physiological chemistry under the guidance of Dr. Yates. A list of approved associated and independent minors will be found in the Regulations of the Academic Council.

No undergraduates are admitted to graduate courses.

Dr. Tennent* conducts in each year the following graduate seminary:

Seminary in Zoology.

Three hours a week throughout the year.

In 1921-22 and again in 1923-24 Embryology of Invertebrates is the subject of the seminary. The work includes a systematic survey of the normal development of invertebrates; of the problems of germinal organization, cleavage and differentiation, and a discussion of the bearing of these questions on evolution and inheritance.

In 1922-23 and again in 1924-25 Cytology is the subject of the seminary. The work deals with the anatomy of the cell and the relations and functions of its various structures in unicellular and multicellular organisms. Special attention is given to the phenomena of spermatogenesis and oögenesis and the theories connected therewith.

Dr. Yates conducts in each year the following graduate seminary:

* Granted sabbatical leave of absence for the year 1922-23. The courses offered by Professor Tennent will be given by a substitute whose appointment will be announced later.

Seminary in Physiology and Biochemistry.

Three hours a week throughout the year.

In 1921-22 the comparative physiology of the nervous system is studied. The development of the nervous system is traced from the primitive forms to its complex form in the higher vertebrates. The bearing of this development on evolution and the significance of this development in the vital functions of the higher organisms is studied.

In 1922-23 the subject will be the general metabolism of the mammalian organism and the influence of the endocrine organs in regulating and modifying vital processes.

In 1923-24 the physiology of the cell is studied. The work includes a consideration of the physical and chemical constitution of living matter; of the physico-chemical laws underlying life processes; of the dynamics of the single cell and of groups of cells aggregated into tissues.

The order of the subjects may be varied to meet the needs of the students.

Dr. Schrader conducts in 1922-23 the following graduate seminary:

Seminary in Biology.

Three hours a week throughout the year.

In 1922-23 Genetics is the subject of the seminary. The work includes a discussion of biometrical methods and results; of investigations on "pure lines"; of the effectiveness of selection; of the relation between chromosomes and heredity; of various theories of heredity and of the application of these ideas in animal and plant breeding.

Dr. Tennent,* Dr. Yates and Dr. Schrader together conduct the journal club and the laboratory work.

Biological Journal Club.

One hour a week throughout the year.

The advanced students and the instructors meet for the discussion of topics of current biological literature.

Laboratory Work.

There is no regular course of laboratory instruction for graduates. Each student must devote a considerable portion of her time to such work and will be given a problem for verification or extension. The nature of the work depends in each case on the qualifications of the student.

POST-MAJOR COURSES.

Dr. Tennent offers in 1921-22 and again in 1923-24 the following post-major course, open to graduate students:

Embryology of Vertebrates.

One hour a week throughout the year.

This course consists of lectures, assigned reading, and laboratory work on the embryology of vertebrates. The lectures deal with the development of specific forms and with theoretical questions of embryological interest. The department has material for the study of the development of Amphioxus, Ascidian, Amia, Lepidosteus, Squalus, Ctenolabrus, Necturus, Rana, Chrysemys, Chick, and Pig. At least four hours of laboratory work are required.

The course is divided as follows: First semester, Early stages of development. Second semester, Organogeny.

Dr. Tennent* offers in 1922-23 and again in 1924-25 the following post-major courses, open to graduate students:

Protoplasm, the Cell, and Cytological Technique.

One hour a week during the first semester.

* See footnote, page 130.

This course consists of a study of the structure of protoplasm, the structure of the cell, the phenomena of cell division, maturation, and fertilization. Both plant and animal cells will be studied, and instruction will be given in methods of preparing cytological material for microscopical examination. This course is to be taken with four hours laboratory work as a two-hour course.

Experimental Morphology.

One hour a week during the second semester.

The object of this course is to give a general historical view of experimental morphology of both plants and animals, to discuss some of the methods employed, to point out the results already obtained, and to indicate the nature of the work now being done in the subject. This course is to be taken with four hours laboratory work as a two-hour course.

Dr. Yates offers in 1921-22 and again in 1922-23 the following post-major course open to graduate students:

Biochemistry.

Two hours a week throughout the year.

The course consists of lectures, assigned reading, quizzes oral and written and at least four hours of laboratory work a week. It deals with the chemical constitution of living matter; with the sources from which the chemical substances necessary for life are derived; with the chemical changes by which non-living material is incorporated as living matter; with the chemical changes by which both living and non-living matter provide energy for the carrying on of vital processes. In particular the chemical characteristics of the fluids and tissues of the body are studied so as to show, as far as possible, the actual chemical phenomena underlying or influencing the normal functions of the mammalian organism.

Dr. Yates offers in 1923-24 the following post-major course open to graduate students:

Advanced Physiology.

Two hours a week throughout the year.

This course consists of lectures, assigned reading, reports on current investigations, quizzes, and at least four hours of laboratory work a week. It will include an intensive study of the physiological properties of highly specialized tissues in lower vertebrates and mammals. The course will further deal with the interdependence of the parts of the organism and the relation of the parts to the whole, which makes possible an effective and smoothly running living mechanism.

Dr. Schrader offers in 1921-22 and again in 1923-24 the following post-major course open to graduate students:

Physiology of Microorganisms.

One hour a week throughout the year.

During the first semester the time is devoted to an introduction to bacteriology, covering the routine bacteriological technique and a consideration of the elementary principles of immunity and infection. In the second semester taxonomy, problems of growth, cell division, regeneration, and reproduction in protozoa are treated. At least four hours of laboratory work a week is required. A special problem is assigned to each student.

Dr. Tennent, Dr. Yates and Dr. Schrader conduct laboratory work in connection with the above courses:

Laboratory Work.

It is desirable that as much laboratory work as possible should be done in connection with the courses offered above. The object of the laboratory work is to give the student

experience in the use of apparatus and in its adaptation to research. Some special problem is assigned to each student; at the end of the year the results of the work are presented in writing.

FREE ELECTIVE COURSE.

Dr. Tennent offers in each year the following free elective course, open to graduate students:

Theoretical Biology.

One hour a week throughout the year.

This is an historical course dealing with the development of the theories of biology. Special attention is given to theories of evolution and heredity. The course is open to students who have had one year's training in science. A considerable amount of assigned reading is required.

COLLEGE BUILDINGS.

The college buildings are situated at Bryn Mawr, in the suburbs of Philadelphia, five miles west of the city, on the main line of the Pennsylvania Railroad. Bryn Mawr is connected with Philadelphia by frequent electric trains on the Pennsylvania Railroad and by an electric trolley running every twenty minutes. The site of the college is four hundred and twenty feet above sea level in the midst of a beautiful rolling country made accessible by good roads in every direction. The college grounds cover fifty-two acres, and include lawns, tennis-courts, and three large athletic fields.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains a general assembly room, ten lecture-rooms, an office for the Alumnæ Association, and the offices of administration.

The Donors' Library, the gift of the friends, graduates, and students of the college, was begun in April, 1903, and completed in February, 1907. It is built of gray stone in the Jacobean Gothic style of architecture of the period of 1630 and forms three sides of a closed quadrangle. The main building, devoted to the library proper, faces east and is opposite and parallel to Taylor Hall at a distance of about fifty yards; the principal entrances of the two buildings face each other and are connected by a broad cement path. The east front is one hundred and seventy-four feet long and contains a three-story stack with accommodation for 88,000 volumes, and above this a large reading-room with desks for one hundred and thirty-six readers, each desk screened to a height of two feet as in the British

Museum reading-room to secure privacy to the reader. No books of reference are kept in the main reading-room. The total book capacity of the library, including the seminary libraries and the books for general study which are kept in the stack, is 168,449 volumes. The building is absolutely fireproof. On the north side of the main reading-room is the Art and Archæological Seminary, containing collections of photographs, vases, and coins; on the south side are the offices of the Carola Woerishoffer Department of Social Economy. The main building contains the Stack, the New Book Room, Reference Book Room, the Carola Woerishoffer Memorial Room, the Reserved Book Room, the Christian Association Library, one lecture room, one professor's office, and three cloak rooms. The wings of the building, running symmetrically about two hundred feet in length from the north and south ends of the main building, contain fourteen seminary rooms and thirty-two professors' offices. The books needed for graduate study and research are kept in the seminary rooms and graduate lectures are held in them. The seminaries are arranged as follows: Greek, Latin, English, Art and Archæology, French and Italian and Spanish, German, Semitic Languages and Philosophy and Education in the north wing; Mathematics, History, Economics, Carola Woerishoffer Department of Social Economy and Social Research, and Psychology in the south wing, where are also offices for the librarians and cataloguers. The professors' offices for the two senior professors in each department in general adjoin the seminary rooms. There are also two general lecture-rooms, one accommodating forty-two the other twenty students. On the first floor of the south wing the department of experimental psychology has two large laboratories, one for general work and one for research. The basement of the north wing contains an experimental laboratory of the department of Education, two interview rooms, a room for the Monograph Committee of the Faculty, and fire-proof safe rooms for the records and archives of the college. The quadrangular court enclosed by the building is surrounded by cloisters and in the centre of the grass enclosure is a fountain, the gift of the class of 1901.

The library is open for students on week-days from 8 A. M.

till 10 P. M. and on Sundays from 2 P. M. till 10 P. M. It is open for the faculty at all hours.

In January, 1893, the scientific departments of the college were transferred to Dalton Hall, a stone building erected by the trustees out of funds in large part contributed by the generosity of friends of the college. Dalton Hall is entirely occupied by the scientific departments, the special scientific libraries, and the consultation-rooms of the professors of science. The first floor and the basement are reserved for physics, the second floor is reserved for biology, the third floor for chemistry, and the fourth and fifth floors for geology. In December, 1893, a greenhouse designed for the use of the botanical department was added to Dalton Hall as the gift of the *alumnæ* and students.

The new gymnasium, erected on the site of the first gymnasium as a gift of the Athletic Association, the *alumnæ* and thirteen neighbours of the college, was completed in February, 1909. It is open to the students from 8 A. M. till 10 P. M., daily, contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the director and an adjoining room for the examination and record of the physical development of the students, a waiting-room, and cloak rooms. The roof, 50 feet wide by 90 feet long, is used for gymnastic drills and students' entertainments. In the basement are dressing-rooms and shower-baths for use after exercise and a swimming-tank, seventy feet long, twenty feet wide, and from four to seven and a half feet deep, given in 1894 by the *alumnæ*, students, and friends of the college, and well supplied with apparatus for the teaching of swimming. The gymnasium is under the charge of a director and an assistant.

On the grounds, separated from other buildings, is the 1905 Infirmary. It was opened in October, 1913, with accommodation for patients and nurses, doctors' offices and consultation rooms, diet kitchens, bathrooms, wards and private rooms, sun parlour, sun terrace, and two isolation wards.

Plans and descriptions of Taylor Hall, Donors' Library, Dalton Hall, the Gymnasium, the 1905 Infirmary and the six halls of residence, are published in Part 4 of the Bryn Mawr

College Calendar and may be obtained from the Secretary and Registrar of the College.

Music-rooms with sound-proof walls and ceilings are provided in Pembroke Hall East. There is a club-room for non-resident students in Cartref and in Merion Hall rooms where the students can have hairdressing and dressmaking done.

The Phebe Anna Thorne Open Air School of the department of Education is situated on the campus and has its own school building with out-of-door class rooms and athletic ground.

A central power-house, which was erected in 1902 as part of the gift of Mr. John D. Rockefeller, furnishes heat, electric light, and hot water for all the college buildings. Steam is conducted through tunnels underground to coils in the basement of each building. Air brought in from the outside is blown through the heaters by powerful fans and distributed to the various rooms, and the system is so adjusted as to change the air completely in every room once in every ten minutes throughout the day and night. The temperature is regulated by thermostats in the heating coils and every room in the college has separate thermostatic control. The electric lights, including electric reading-lamps for each student, are installed in the most approved manner and the voltage is kept constant so that there is no fluctuation. A constant and abundant supply of hot water is laid on and maintained at a temperature of 180 degrees day and night in all the bathrooms and stationary wash-stands and tea pantries.

Telephone pay stations by means of which the students may be reached at any time are maintained in the library, gymnasium, infirmary and in each of the halls of residence. The Western Union Telegraph and Cable Company delivers telegrams between the hours of 6 A. M. and 12 P. M. Near the college there are a United States money-order office, two banks and an office of the American Railroad Express.

LIST OF DISSERTATIONS

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* Mrs. Francis Greenleaf Allinson.

† Died, 1917.

‡ Mrs. Joseph M. Dohan.

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* Mrs. Gethmann.

† Mrs. Samuel Prioleau Ravenel.

‡ Mrs. Emmons Bryant.

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FIRST SEMESTER, 1922-23 (continued).

WEDNESDAY	THURSDAY	FRIDAY
<p>Psychology of Childhood (Castro) Harmony (Alwyne)</p> <p>Greek, Sophocles (Sanders) Latin, Composition (Ballou) French, Masterpieces of French Literature (Pardé) Economics and Politics, American Economic Problems (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Pell) Biology, Embryology (—)</p> <p>Advanced Old French Philology (Gilli) Archæology Seminary (Carpenter), 2-4 Family as a Social Institution (Deardorff), 2-4 Geology Journal Club (Bascom and Bissell), 2.15-4.15. Alternate Weeks</p>	<p>Physics, Major (Barnes) Chemistry, Minor (Brunel) Geology, Minor (Bascom) Biology, Major (Schrader)</p> <p>Versification (Crandall) History of Education (Arlitt)</p> <p>French Modern Drama (Schenck)</p> <p>Economics and Politics, Constitutional Questions (Fenwick)</p> <p>Oriental Art (Rowley)</p> <p>Seminary in European History (Gray) Seminary in Ægean Archæology (Swindler), 2-4</p>	<p>Physics, Major (Barnes) Chemistry, Minor (Brunel) Geology, Minor (Bascom) Biology, Major (Schrader)</p> <p>History of Education (Arlitt)</p> <p>French Modern Drama (Schenck)</p> <p>Economics and Politics, Constitutional Questions (Fenwick)</p> <p>Oriental Art (Rowley)</p> <p>Greek Seminary, Aristophanes (W. C. Wright), 2-4 Romance Philology (Gilli) Seminary in Labour Organization (Boone), 2-4</p>
<p>Argumentation (Crandall) History and Appreciation of Music (Surette, Alwyne)</p> <p>Greek, Melic Poets (W. C. Wright) Latin, Vergil (Ballou) Historical French Grammar (Gilli) Spanish (Kany) History of French Revolution (David) Biology, Physiology (Yates)</p>	<p>Physics, Major (Barnes) Chemistry, Minor (Brunel) Geology, Minor (—) Biology, Major (Schrader)</p> <p>Short Story (Crandall) Elements of Statistics (Boone)</p> <p>Roman Elegy (Wheeler) Spanish (De Haan)</p>	<p>Physics, Major (Barnes) Chemistry, Minor (Brunel) Geology, Minor (—) Biology, Major (Schrader)</p> <p>Roman Elegy (Wheeler) Spanish (De Haan)</p>
<p>Seminary in Politics (Fenwick)</p> <p>Seminary in Mathematics (Scott), 3.30-5.30</p>	<p>History of French Revolution (David)</p> <p>Greek Seminary, Greek Historians (Sanders), 3-4.30 Seminary in English Literature (Chew), 3-4.30 French Literature (Pardé), 3-4.30 Anglo-Norman (Gilli) Philosophical Journal Club (T. de Laguna and G. de Laguna), 3-4.30 Seminary in Educational Psychology (Castro), 3-5</p> <p>Mathematics Seminary (Pe), 3.30-5.30</p>	<p>History of French Revolution (David)</p> <p>English Journal Club (Brown, Chew, Savage, Crandall and —), 3-4.30. Alternate Weeks</p> <p>Romance Languages Journal Club (Schenck, Gilli, Pardé, Riddell, De Haan, and Kany), 3-4.30. Alternate Weeks Archæological Journal Club (Carpenter, Swindler), 3-4.30. Alternate Weeks</p>
<p>Latin Seminary, Roman Lyric (Wheeler) 4.30-6 Seminary in English Composition (Crandall), 4-6 Seminary in Modern French Literature (Schenck), 4-6 Spanish Seminary (De Haan), 4-6 Seminary in History of Religion (Barton) Seminary in American History (W. R. Smith), 4-6 Seminary in History of Philosophy (T. de Laguna), 4-6</p>	<p>Middle English Seminary (Brown), 4.30-6 Seminary in German Literature (Prokosch), 4-6 Old French Philology (Gilli), 4.30-6 Semite Seminary (Barton) Historical Bibliography (David) Seminary in Municipal Government (Franklin), 4-6 Social and Industrial Research (Kingsbury), 4-6 Education Journal Club (Castro and Arlitt), 4.30-6 Journal Club in History of Art (G. G. King and Rowley), 4.30-6. Alternate Weeks</p>	<p>Latin Seminary, Roman Lyric (Wheeler), 4.30-6</p> <p>Seminary in History of England (David), 4-6 Seminary in Economics (M. P. Smith), 4-6</p> <p>Community Organization (White), 4-6. Alternate Weeks.</p> <p>Seminary in Educational Methods (Castro), 4-6</p>
<p>Seminary in Zoology (—), 4.30-6 Gothic (Prokosch)</p>	<p>Seminary in Physiology (Yates), 1.30-6 Ethiopic (Barton)</p>	<p>Seminary in Petrology (—), 4.30-6 Gothic (Prokosch)</p>

Hour	Course	Monday	Tuesday
9	ELEMENTARY	Greek (Kirk) German (—)	Greek (Kirk) German (—)
	GENERAL	Philosophy (T. de Laguna, G. de Laguna)	Philosophy (T. de Laguna, G. de Laguna)
	MINOR	Greek, Euripides (Sanders) French, 19th Century Literature, Div. A (Trotain) Introduction to Government and Politics, Div. B (Fenwick) Mathematics, Calculus (Pell) Chemistry (Crenshaw) Geology (Bissell)	Greek, Homer (Wright) French Reading and Composition, Div. A (Trotain) Div. B (Fenwick) Mathematics, Algebra (Pell) Chemistry Laboratory (Crenshaw) Geology Laboratory (Bissell)
	MAJOR	Italian (Riddell) Mediaeval Art, Gothic (Rowley)	Italian (Riddell) Modern Painting (G. G. King)
	ELECTIVE	History of the Near East (Barton) Europe since 1870 (Gray) Educational Psychology (Arlitt) Biology, Theoretical (Tennent)	History of the Far East (Barton) History of the U. S. from 1865 (W. R. Smith) Education (Castro) Advanced Harmony (Alwyne)
	GRADUATE	Industrial Supervision Field Work (Boone), 8-5 Social Economy Practicum, Divs. I, II (Dcardorf, Addition), Alt. Weeks, 9-5 Physics (Huff)	Seminary in Social and Industrial Research Field Work (Kingsbury), 9-5 Mental Tests, Field Work (Rand), 9-5
10	GENERAL	English Composition, 2nd year (Savage)	English Composition, 2nd year (Savage)
	MINOR	English Poetry (Chew) German Grammar (Prokosch) Spanish (Kany) History of Europe from 1789, Div. A (Gray) Ancient Architecture (Carpenter) Biology Laboratory (Schrader)	English Poetry (Chew) German Literature (Prokosch) Spanish (Kany) History of Europe from 1789, Div. A (Gray) Ancient Rome (Swindler) Biology Laboratory (Schrader)
	MAJOR	Recent Philosophical Tendencies (T. de Laguna)	Recent Philosophical Tendencies (T. de Laguna)
	ELECTIVE	Elements of Law (Fenwick)	Modern French Literature (Schenck) Biblical Literature (Barton) Modern Geography (Bissell)
	POST-MAJOR	Physics (Barnes) Chemistry (Brunel)	Physical Chemistry (Crenshaw)
	GRADUATE	Petrography (Bascom)	
11	GENERAL	English Literature, 1st year (—)	English Literature, 1st year (—)
	ELEMENTARY	French (Trotain) Italian (—)	French (Trotain) Italian (—)
	MINOR	French, Div. B (Pardé) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (G. de Laguna) Greek Sculpture (Carpenter)	French, Div. B (Pardé) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (G. de Laguna) Archæology, Minor Arts (Carpenter)
	MAJOR	Latin Comedy (Wheeler) Spanish Reading (Kany) History, British Imperialism (W. R. Smith) Psychology, Applied (Rand) Physics (Huff) Chemistry (Brunel)	Latin Literature (Ballou) Spanish Literature (Kany) History, British Imperialism (W. R. Smith) Psychology, Applied (Rand) Physics (Huff) Chemistry (Brunel)
	ELECTIVE		Literary Geography (Wright) Applied Sociology (Kingsbury)
	GRADUATE	Systematic Psychology (Ferree)	
12	ELEMENTARY	Spanish (De Haan)	Spanish (De Haan)
	MINOR	Latin, Terence, Div. A (Ballou) Div. B (Swindler) Div. C (Wheeler) Italian (Riddell) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (Leuba) Italian Renaissance Painting (G. G. King) Physics (Barnes)	Latin, Horace, Div. A (Wheeler) Div. B (Ballou) Div. C (Swindler) Italian (Riddell) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (Leuba) Art of the Far East (Rowley) Physics Laboratory (Barnes)
	MAJOR	Greek, Thucydides (Sanders) English, Shakespeare (Brown) English Fiction (Savage) French Literature (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology (—) Biology (Yates)	Greek Literature (W. C. Wright) English, Shakespeare (Brown) English Fiction (Savage) French, Reading and Composition (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology (—) Biology (Yates)
	ELECTIVE	Advanced History of Music (Surette, Alwyne)	
	GRADUATE	Chemistry (Brunel)	Chemistry (Brunel)

WEDNESDAY	THURSDAY	FRIDAY
<p>Greek (Kirk) German (—)</p> <p>Philosophy (T. de Laguna, G. de Laguna)</p> <p>Greek, Euripides (Sanders) French, 19th Century Literature, Div. A (Trotain) Introduction to Government and Politics, Div. B (Fenwick) Mathematics, Calculus (Pell) Chemistry (Crenshaw) Geology (Bissell)</p> <p>Italian (Riddell) Mediaeval Art, Gothic (Rowley)</p> <p>History of the Near East (Barton) Europe since 1870 (Gray) Educational Psychology (Arlitt)</p> <p>Social Economy Practicum, Div. III (Boone), Alt. Weeks, 9-11 Industrial Relations Observations (Boone), Alt. Weeks, 9-5 Physics (Huff)</p>	<p>Greek (Kirk) German (—)</p> <p>Philosophy (T. de Laguna, G. de Laguna)</p> <p>Greek, Homer (Wright) French, Reading and Composition, Div. A (Trotain) Introduction to Government and Politics Div. B (Fenwick) Mathematics, Algebra (Pell) Chemistry, Demonstration (Crenshaw) Geology, Demonstration (Bissell)</p> <p>Italian (Riddell) Modern Painting (G. G. King)</p> <p>History of the Far East (Barton) History of the U. S. from 1865 (W. R. Smith) Education (Castro) Advanced Harmony (Alwyne)</p> <p>Seminary in Applied Psychology (Rand), 9-11 Physics Journal Club (Huff and Barnes) Biology Journal Club (—, Yates and Schrader)</p>	<p>Greek (Kirk) German (—)</p> <p>Philosophy (T. de Laguna, G. de Laguna)</p> <p>Greek, Herodotus (Sanders) French, 19th Century Literature, Div. A (Trotain) Introduction to Government and Politics, Div. B (Fenwick) Mathematics, Calculus (Pell) Chemistry (Crenshaw) Geology (Bissell)</p> <p>Italian (Riddell) Mediaeval Art, Gothic (Rowley)</p> <p>History of the Near East (Barton) Europe since 1870 (Gray) Educational Psychology (Arlitt) Physical Basis of Music (Huff)</p> <p>Physics (Huff)</p>
<p>English Composition, 2nd year (Savage)</p> <p>English Poetry (Chew) German Reading (Prokosch) Spanish (Kany) History of Europe from 1789, Div. A (Gray) Ancient Architecture (Carpenter) Biology (Schrader)</p> <p>Recent Philosophical Tendencies (T. de Laguna) Cosmogony (—)</p> <p>Physics (Barnes) Chemistry (Brunel) Seminary in Educational Research (Castro and Arlitt), 10-12</p> <p>Petrography (Bascom)</p>	<p>English Composition, 2nd year (Savage)</p> <p>English Poetry (Chew) German Literature (Prokosch) Spanish (Kany) History of Europe from 1789, Div. A (Gray) Ancient Rome (Swindler) Biology (Schrader)</p> <p>Recent Philosophical Tendencies (T. de Laguna) Modern French Literature (Schenck) Biblical Literature (Barton) Modern Geography (Bissell)</p> <p>Physical Chemistry (Crenshaw)</p>	<p>English Composition, 2nd year (Savage)</p> <p>English Poetry (Chew) German Reading (Prokosch) Spanish (Kany) History of Europe from 1789, Div. A (Gray) Egypt and Crete (Carpenter) Biology (Schrader)</p> <p>Recent Philosophical Tendencies (T. de Laguna)</p> <p>Physics (Barnes) Chemistry (Brunel)</p> <p>Petrography (Bascom)</p>
<p>English Literature, 1st year (—)</p> <p>French (Trotain) Italian (—) French, Div. B (Pardé) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (G. de Laguna) Greek Sculpture (Carpenter)</p> <p>Latin Comedy (Wheeler) Spanish Grammar (Kany) History, British Imperialism (W. R. Smith) Psychology, Applied (Rand) Physics (Huff) Chemistry (Brunel)</p> <p>Mathematics (Scott)</p>	<p>English Literature, 1st year (—)</p> <p>French (Trotain) Italian (—) French, Div. B (Pardé) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (G. de Laguna) Archæology, Minor Arts (Carpenter)</p> <p>Latin Literature (Ballou) Spanish Literature (Kany) History, British Imperialism (W. R. Smith) Psychology Applied (Rand) Physics Laboratory (Huff) Chemistry Laboratory (Brunel)</p> <p>Literary Geography (Wright) Applied Sociology (Kingsbury)</p> <p>Seminary in Industrial Supervision (Boone) 11-1</p>	<p>English Literature, 1st year (—)</p> <p>French (Trotain) Italian (—) French, Div. B (Pardé) Introduction to Government and Politics, Div. A (Franklin) History of Philosophy (G. de Laguna) Greek Sculpture (Carpenter)</p> <p>Latin Comedy (Wheeler) Spanish Reading (Kany) History, British Imperialism (W. R. Smith) Psychology, Applied (Rand) Physics Laboratory (Huff) Chemistry Laboratory (Brunel)</p> <p>Systematic Psychology (Ferree)</p>
<p>Spanish (De Haan)</p> <p>Latin, Terence, Div. A (Ballou) Div. B (Swindler) Div. C (Wheeler)</p> <p>Italian (Riddell) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (Leuba) Italian Renaissance Painting (G. G. King) Physics (Barnes)</p> <p>Greek, Sophocles (Sanders) English, Shakespeare (Brown) English, Fiction (Savage) French Literature (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology (—) Biology (Yates)</p> <p>Advanced History of Music (Surette, Alwyne)</p>	<p>Spanish (De Haan)</p> <p>Latin, Horace, Div. A (Wheeler) Div. B (Ballou) Div. C (Swindler)</p> <p>Italian (Riddell) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (Leuba) Art of the Far East (Rowley) Physics, Demonstration (Barnes)</p> <p>Greek Literature (W. C. Wright) English, Shakespeare (Brown) English, Fiction (Savage) French, Reading and Composition (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology Laboratory (—) Biology Laboratory (Yates)</p> <p>Chemistry Journal Club (Brunel and Crenshaw)</p>	<p>Spanish (De Haan)</p> <p>Latin, Terence, Div. A (Ballou) Div. B (Swindler) Div. C (Wheeler)</p> <p>Italian (Riddell) History of Europe from 1789, Div. B (David) Psychology of Instinct and Emotion (Leuba) Italian Renaissance Painting (G. G. King) Physics (Barnes)</p> <p>Greek, Thucydides (Sanders) English, Shakespeare (Brown) English, Fiction (Savage) French Literature (Schenck) Econ., Hist. of Econ. Thought (M. P. Smith) Mathematics (Scott) Geology Laboratory (—) Biology Laboratory (Yates)</p> <p>Advanced History of Music (Surette, Alwyne)</p> <p>Social and Industrial Research Laboratory (Deardorff)</p>

SCHEDULE OF LECTURE

Hour	Course	Monday	Tuesday
2	LABORATORY WORK	Educational Psychology (Arlitt) Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major, Field Work (Bascom) Biology, Minor (Schrader)	Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major (Bascom) Biology, Minor (Schrader)
	ELECTIVE	Psychology of Childhood (Castro) Harmony (Alwyne)	Psychology of Childhood (Castro)
	POST-MAJOR	Greek, Aeschylus (Sanders) French Lyric Poetry (Pardé)	Greek, Aeschylus (Sanders) French Lyric Poetry (Pardé)
	GRADUATE	Economics and Politics, American Economic Problems (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Pell) Beowulf (Brown), 2.30-4.30 Italian Seminary (Riddell), 2-4	Economics and Politics, American Economic Problems (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Pell) Advanced Romance Philology (Gilli) Seminary in Municipal Government (Franklin) Advanced Social Statistics (Boone) Seminary in Logic and Metaphysics (G. Laguna), 2-4 Intelligence Tests (Arlitt) 2-4
3	LABORATORY WORK	Educational Psychology (Arlitt) Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major, Field Work (Bascom) Biology, Minor (Schrader)	Physics, Minor (Barnes) Chemistry, Major (Brunel) Geology, Major (Bascom) Biology, Minor (Schrader)
	ELECTIVE	Elocution, Reading of Prose (S. A. King) History and Appreciation of Music (Surette, Alwyne)	Elocution, Reading of Prose (S. A. King) Advanced Experimental Psychology (Fenwick) Record Keeping (Kingsbury) History and Appreciation of Music (Surette, Alwyne)
	POST-MAJOR	Greek, Plato (W. C. Wright) Latin, Roman Prose of the Empire (Ballou) Advanced French Composition (Gilli) Spanish (Kany) History, American Constitutional (W. R. Smith) Mathematics (Scott)	Latin, Roman Prose of the Empire (Ballou) Advanced French Composition (Gilli) Spanish (Kany) History, American Constitutional (W. R. Smith) Mathematics (Scott)
	GRADUATE	Germanic Seminary (Prokosch), 3-5 Psychology Journal Club (Leuba, Ferree and Rand) Seminary in Modern Painting (G. G. King), 3-5	Greek Seminary, Greek Historians (Sanders), 3-4.30 Seminary in English Literature (Clark), 3-4.30 French Literature (Pardé), 3-4.30 New Testament Greek (Barton) Seminary in Research in Labour Problems (Boone)
4	GRADUATE	Latin Seminary, Cicero's Correspondence (Ballou) Seminary in Mediæval French Literature (Gilli), 4-6 Elementary Semitic Languages (Barton) History Journal Club (Gray, W. R. Smith, and David), 4-6. Alternate Weeks Economics Journal Club (Marion P. Smith, Fenwick, Franklin), 4-6. Alternate Weeks Social Treatment (Additon), 4-6 Psychology Seminary (Leuba), 4-6 Spanish Seminary (Kany), 4-6 Seminary in Zoology (—), 4.30-6	Greek Journal Club (Sanders and Wright), 4.30-6. Alternate Weeks Latin Journal Club (Wheeler, Ballou, Surette), 4.30-6. Alternate Weeks Middle English Seminary (Brown), 4.30-6 Old French Philology (Gilli) 4.30-6 Semitic Seminary (Barton) Seminary in European History (Gray), 4-6 Seminary in Politics (Fenwick), 4-6 Seminary in Social and Political Philosophy (T. de Laguna), 4-6 Seminary in Social Education (Castro) Mathematical Journal Club (Scott and Additon), 4-6. Alternate Weeks Seminary in Music (Surette, Alwyne).
5	GRADUATE	Introduction to Germanic Philology (Prokosch)	Hebrew Literature (Barton)

SECOND SEMESTER, 1922-23 (continued).

WEDNESDAY	THURSDAY	FRIDAY
Chemistry, Major (Brunel)	Psychology, Major (Rand) Physics, Major (Huff) Chemistry, Minor (Crenshaw) Geology, Minor (Bissell) Biology, Major (Yates)	Psychology, Major (Rand) Physics, Major (Huff) Chemistry, Minor (Crenshaw) Geology, Minor (Bissell) Biology, Major (Yates)
Psychology of Childhood (Castro) Harmony (Alwyne) Greek, Prose Composition (Sanders) Latin, Composition (Ballou) French, Masterpieces of French Literature (Pardé)	Versification (Crandall) History of Education (Arlitt)	History of Education (Arlitt)
Economics and Politics, American Economic Problems (M. P. Smith) Spanish Painting (G. G. King) Mathematics (Pell) Biology, Embryology (Tennent)	French Modern Drama (Schenck)	French Modern Drama (Schenck)
Advanced Old French Philology (Gilli) Archæology Seminary (Carpenter), 2-4 Family as a Social Institution (Deardorff), 2-4 Geology Journal Club (Bascom and Bissell), 2.15-4.15. Alternate Weeks	Economics and Politics, Constitutional Questions (Fenwick) Oriental Art (Rowley)	Economics and Politics, Constitutional Questions (Fenwick) Oriental Art (Rowley)
	Seminary in European History (Gray) Ancient Painting (Swindler)	Greek Seminary, Aristophanes (W. C. Wright), 2-4 Romance Philology (Gilli) Seminary in Labour Organization (Boone), 2-4
Chemistry, Major (Brunel)	Psychology, Major (Rand) Physics, Major (Huff) Chemistry, Minor (Crenshaw) Geology, Minor (Bissell) Biology, Major (Yates)	Psychology, Major (Rand) Physics, Major (Huff) Chemistry, Minor (Crenshaw) Geology, Minor (Bissell) Biology, Major (Yates)
Argumentation (Crandall) History and Appreciation of Music (Surette, Alwyne)	Short Story (Crandall) Elements of Statistics (Boone)	
Greek, Plato (W. C. Wright) Latin, Roman Prose of the Empire (Ballou) Historical French Grammar (Gilli) Spanish (Kany) History of the French Revolution (David) Biology, Physiology (Yates)	Roman Elegy (Wheeler)	Roman Elegy (Wheeler)
Seminary in Politics (Fenwick)	Spanish (De Haan) History of the French Revolution (David)	Spanish (De Haan) History of the French Revolution (David)
Mathematics Seminary (Scott), 3.30-5.30	Greek Seminary, Greek Historians (Sanders), 3-4.30 Seminary in English Literature (Chew), 3-4.30 French Literature (Pardé), 3-4.30 Anglo-Norman (Gilli) Philosophical Journal Club (T. de Laguna and G. de Laguna), 3-4.30 Mathematics Seminary (Pell) 3.30-5.30 Seminary in Educational Psychology (—), 3-5	English Journal Club (Brown, Chew, Savage, Crandall and —), 3-4.30. Alternate Weeks Romance Languages Journal Club (Schenck, Gilli, Pardé, Riddell, De Haan and Kany), 3-4.30. Alternate Weeks Archæological Journal Club (Carpenter and Swindler), 3-4.30. Alternate Weeks
Latin Seminary, Roman Lyric (Wheeler), 4.30-6 Seminary in English Composition (Crandall), 4-6 Seminary in Modern French Literature (Schenck), 4-6 Spanish Seminary (De Haan) Seminary in History of Religion (Barton) Seminary in American History (W. R. Smith), 4-6 Seminary in History of Philosophy (T. de Laguna)	Middle English Seminary (Brown), 4.30-6 Seminary in German Literature (Prokosch), 4-6 Old French Philology (Gilli), 4.30-6 Semitic Seminary (Barton) Historical Bibliography (David) Seminary in Municipal Government (Franklin), 4-6 Social and Industrial Research (Kingsbury), 4-6 Journal Club in History of Art (G. G. King and Rowley), 4.30-6. Alternate Weeks Education Journal Club (Castro and Arlitt), 4.30-6	Latin Seminary, Roman Lyric (Wheeler), 4.30-6 Seminary in History of England (David), 4-6 Seminary in Economics (M. P. Smith), 4-6 Seminary in Petrology (Bascom), 4.30-6 Community Organization (White), 4-6. Alternate Weeks Seminary in Educational Methods (Castro), 4-6
Seminary in Zoology (—), 4.30-6	Seminary in Physiology (Yates), 4.30-6	
Gothic (Prokosch)	Ethiopic (Barton)	Gothic (Prokosch)

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